

- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

FOCUS-8 CONFERENCE

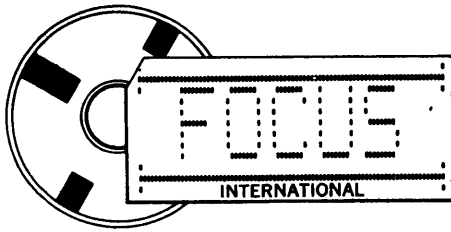
October 17-20, 1972

TABLE OF CONTENTS

AEBS	- Allied-Energy Business Systems	1
ALCO	- Alcoa Research Laboratories	5
AOL	- Bedford Institute	9
ARO	- AEDC (ARO, Inc.) VKF, Arnold AFS	13
ARUT	- Applied Research Laboratories, University of Texas	17
ASC	- The Aerospace Corporation	21
BACT	- Bell Aerospace Company	25
BHP	- The Broken Hill Proprietary Co., Ltd.	29
BILA	- Bickley Labs	33
BIP	- Walter Reed Army Institute, Division of Biometrics and Medical Info.	36
BPA	- Bonneville Power Administration	43
BTLC	- Benefit Trust Life Insurance Company	49
CAC	- Call-A-Computer, Inc.	53
CBCS	- Bureau of Census and Statistics	57
CCIW	- Canada Center for Inland Waters	61
CDWR	- State of California, Dept. of Water Resources	65
CEIS	- Community Electrocardiographic Interpretative Service	69
CHEC	- Chevrolet Engineering Center	73
CSIR	- CSIRO Division of Computing Research	77
CSPS	- California State University	81
DLAB	- MIT Charles Stark Draper Lab	85
DPTR	- DuPont-Textile Research	89
DUQ	- Duquesne University	93
EM	- Electric Machinery Mfg. Co.	97
EPC	- ElPaso County	101

EPI	-	Motorola SPD	105
FCD	-	Central & Southern Florida Flood Control District	109
FCED	-	Frankford Arsenal	113
GCCL	-	Multiple Access Limited	117
GPL	-	Singer - Librascope	121
GTY	-	Getty Oil Company (Eastern Operations)	125
HCS	-	Health Computer Sciences, University of Minnesota	129
HSH	-	Haubenreich and Morrissey	133
HUCC	-	Harvard University/Massachusetts General Hospital	137
IDSC	-	U.S. Army Finance and Comptroller Information	141
FLIN	-	Booth Newspapers Inc.	145
INTN	-	Intran Corporation	149
IPC	-	Interstate Power Company	150
KCL	-	Kazmar Consultants, Ltd.	154
KIST	-	Korea Institute of Science & Technology	158
KSLA	-	Koninklijke/Shell Laboratorium	162
LDSH	-	University of Utah, Department of Biophysics	166
LPI	-	Western Uranium Project, Lucius Pitkin, Inc.	171
LUCC	-	Lamar University	175
LUNO	-	Loyola University	179
MAC	-	McDonnell Douglas Automation Company	183
MEC	-	Milgo Electronics Corporation	187
MEMC	-	Miller Electric Mfg. Co.	191
MINN	-	West Bank Computer Center, University of Minnesota	195
MSU	-	Michigan State University	199
MVAM	-	Motor Vehicle Administration	203
NAIC	-	National Astronomy & Ionosphere Center	207
NAIT	-	Northern Alberta Institute of Technology	211
NCER	-	National Center for Earthquake Research	215
NEUC	-	Northeastern University	219
NIH	-	National Institute of Health	224
NLSC	-	Naval Air Systems Command, Navy Department	228
NOAA	-	National Oceanic and Atmospheric Administration	233

(Continued Inside Third Cover)



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: ALLIED - EGRY BUSINESS SYSTEMS
Installation Name
DAYTON OHIO
City State
2. FOCUS CONTACT: RICHARD J. COPITS SR. SYSTEMS ANAL./TECH. SPEC.
Name Title
3. DATE: 72 / 9 / 01 4. FOCUS INSTALLATION CODE: AEBS
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: DATA PROCESSING CENTER FOR ALLIED-
 EGRY, ALLIED PAPER, SOUTHERN MILLS CONVERTING, AND MARION
 IND. PLANTS

6. HARDWARE (include vendor symbol on non-CDC Equipment): SEP 12 1972
DATE OF USER

a. CENTRAL SITE:

(1) Mainframe(s)

GROUP LIAISON

Model	Quantity	Core (K)
<u>3150</u>	<u>1</u>	<u>32 (24)</u>

(2) Console(s)

(3) Tape Transport(s)

Model	Quantity	Model	Quantity
<u>3200</u>	<u>1</u>	<u>601</u>	<u>4</u>

(4) Disk(s)

(5) Card Reader(s)

Model	Quantity	Model	Quantity
<u>854</u>	<u>4</u>	<u>3248</u>	<u>1</u>

(6) Line Printer(s)

(7) Data Cell(s)

Model	Quantity	Model	Quantity
<u>512</u>	<u>1</u>		

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>NONE</u>	

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>NONE</u>	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>854 DISK</u>	<u>4-5 per week</u>	<u>IRRECOVERABLE DISK</u>
<u>SYSTEM (TAPE)</u>	<u>2-3 per week</u>	<u>ERRORS - (SORTS)</u>
		<u>SYSTEM LOCKUP WHEN</u>
		<u>UPDATING TAPE TO TAPE</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System M.S.O.S. Latest Update 4.2 PSR No. 254

b. Local Modifications (Add additional description if desired, as appendix)

DATE ROUTINE
USER LIBRARY
ACCOUNTING ROUTINE

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

AS RELEASED FOR STD. 254
SYSTEM, BUT WITHOUT
ALGOL ? SAINT. MS COBOL
? FORTRAN IN USE

e. Current Problems and Comments:

POOR DOCUMENTATION FOR INSTALLATION OF 4.2 AND POOR
INFORMATION ON P.S.R. RELEASE DOCUMENTATION

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: NONE - IN USE ONLY A SHORT TIME, USUAL
START-UP BUGS - STILL IN CHECKOUT PHASES
- (2) Compilers and System Routines: SAME AS ABOVE

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	6 AM	8:0 AM	MONDAY
	6 AM	8 AM	WEDNESDAY
	6 AM	8 AM	FRIDAY
Systems Work	11 AM	12 NOON	WEDNESDAY
	3 PM	4 PM	"
	11 AM	12 NOON	THURSDAY
	3 PM	4 PM	THURSDAY
Special Time Allotment	6 AM	8 AM	TUESDAY
	6 AM	8 AM	THURSDAY
Production	8 AM	11 AM	MON - FRI
	8 PM	12 MID	MON - FRI
Debugs	12 NOON	9 PM	MON - FRI

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: ELAPSED TIME PER JOB
 Billing algorithm: _____

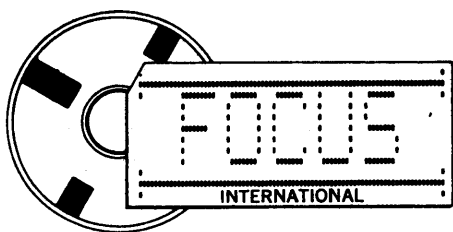
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: POSSIBLE UPGRADE OF 854'S TO 841'S.

 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Alcoa Research Laboratories
Installation Name
New Kensington Pennsylvania
City State
2. FOCUS CONTACT: A. H. Knoll Head, Computer Section
Name Title
3. DATE: 72/08/21 4. FOCUS INSTALLATION CODE: ALCO
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION:
Laboratory data acquisition and control
Scientific computation
Data processing
Information retrieval

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

AUG 23 1972

a. CENTRAL SITE:

(1) Mainframe(s)

GROUP LIAISON
Core (K)

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
<u>1700</u>	<u>1</u>	<u>32</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

(3) Tape Transport(s)

<u>Model</u>	<u>Quantity</u>	<u>Model</u>	<u>Quantity</u>
<u>1711</u>	<u>1</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(4) Disk(s)

(5) Card Reader(s)

<u>Model</u>	<u>Quantity</u>	<u>Model</u>	<u>Quantity</u>
<u>853</u>	<u>2</u>	<u>1729-2</u>	<u>1</u>
_____	_____	_____	_____
_____	_____	_____	_____

(6) Line Printer(s)

(7) Data Cell(s)

<u>Model</u>	<u>Quantity</u>	<u>Model</u>	<u>Quantity</u>
<u>1742</u>	<u>1</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

6. a. (8) OSE(s) (Quote Special Equipment)

Description	Quantity
<u>Motorola MDR 2040</u>	
<u>Mark sense reader</u>	<u>1</u>

(9) Other Devices

Description	Quantity
<u>1749</u>	
<u>1750</u>	
<u>Industrial I/O</u>	

b. REMOTE SITE(S):

(1) Computer(s)

Model	Quantity

(2) Other Remote Devices

Description	Quantity
<u>KSR 35</u>	<u>3</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

Device	No. of Occurrences (Or Rate of Occurrences)	Nature of Failure
<u>1738 Disk Controller</u>	<u>1 per month</u>	<u>Erroneous bad track reject; irrecoverable error</u>
<u>1742 Line printer</u>	<u>-</u>	<u>Misprints lines when first turned on</u>
<u>1721 Tape reader</u>	<u>Sporedically</u>	<u>Clutch and brake adjustment</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 2.1 Latest Update May '72 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

FORTRAN 2.0A

Updated through PSR Summary or Local Modifications:

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent Very Good ____ Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 5-7 days
Longest time period between hardware/software failures over 1 month

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	<u>0830</u>	<u>1000</u>	<u>Tuesday</u>
Systems Work			<u>Evenings or weekends</u>
Special Time Allotment			
Production	<u>0815</u>	<u>1700</u>	<u>Daily</u>
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

Open shop

c. Accounting Method:

Charges based on: Elapsed clock time
 Billing algorithm: _____

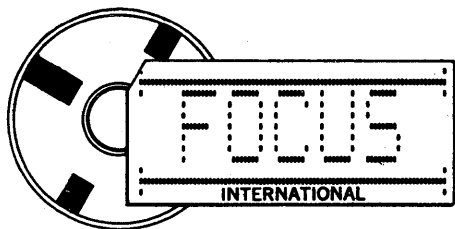
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: BEDEFORD INSTITUTE
Installation Name
DARTMOUTH, N.S., CANADA
City State

2. FOCUS CONTACT: _____
Name Title

3. DATE: 7 21 08 1 10 4. FOCUS INSTALLATION CODE: AML
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: OCEANOGRAPHIC RESEARCH

OFFICE OF USER

AUG 24 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3150</u>	<u>1</u>	<u>32</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
<u>3111</u>	<u>1</u>
<u>3122</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>601</u>	<u>3</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
<u>854</u>	<u>4</u>
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
<u>405 UNBUF</u>	<u>1</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>512</u>	<u>1</u>
<u>3152</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) OSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>A → D , D → A</u>	<u>1</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>3691 PAPER TAPE STATION, 8197</u>	
<u>COMMUNICATIONS CONT, 415 CARD PUNCH</u>	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>854</u>	<u>1 per week</u>	<u>read malfunction</u>
<u>601</u>	<u>1 per 2 weeks</u>	<u>vacuum problems</u>
<u>405</u>	<u>3 per week</u>	<u>feed failures</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System M505 4.2 Latest Update Aug 1/78 PSR No. 237

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

All

Updated through PSR Summary or Local Modifications:

Both

e. Current Problems and Comments:

M505 is weak in the areas of recovering from lost interrupts, unidentified interrupts & no response rejects.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: M505 4.2

(2) Compilers and System Routines: Fortran at runtime does not check for correct no. of arguments to subroutine, thus a connect to a non-existent channel on a 3150.

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 3 days

Longest time period between hardware/software failures 1 week

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>6:30AM</u>	<u>8:30AM</u>	<u>Mon. through Fri</u>
Systems Work	<u>not scheduled.</u>	<u>about 2 hours</u>	<u>per week.</u>
Special Time Allotment	<u>weekends</u>		
Production	<u>8:30AM</u>	<u>1AM</u>	<u>Mon through Fri</u>
Debugs	<u>not scheduled</u>		
	<u>1 hr per month</u>		

b. Job Scheduling: Describe your job scheduling algorithm
8:30 → 4:30 5 min jobs highest priority.
all jobs exceeding 45 min run 4:30 → 1:00 AM.

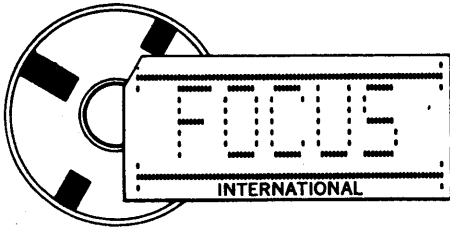
c. Accounting Method:
 Charges based on: Total run time
 Billing algorithm: \$100.00 per hr.

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: _____

 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: AEDC (ARO, INC.) VKF
ARNOLD AFS TENNESSEE
City Installation Name State
2. FOCUS CONTACT: CHARLES T. BELL COMPUTER SUPERVISOR
Name Title
3. DATE: 72/ 8 / 21 4. FOCUS INSTALLATION CODE: ARO
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: TESTING OF HIGH-SPEED AIRCRAFT, MISSILES AND SPACECRAFT MODELS AT MACH NUMBERS RANGING FROM 1.5 TO 22, IN CONJUNCTION WITH THAT TESTING THE COMPUTER IS USED FOR DATA ACQUISITION AND PROCESSING, MATH MODELS, AND RESEARCH.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

AUG 23 1972

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>1604-B #29</u>	<u>1</u>	<u>32</u>
<u>160-A</u>	<u>1</u>	<u>8</u>

GROUP LIAISON

(2) Console(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>606</u>	<u>8</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>505</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
<u>BRPE11</u>	<u>2</u>
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
CALCOMP 765	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415 CARD PUNCH	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System COOP Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

FORTRAN 63, CODAP, COBOL

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent Very Good ____ Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	0900 0800	1600 0900	SUN THURS - THRU
Systems Work	0800	1600	MON - FRI
Special Time Allotment			
Production	1600	0900	MON - SAT
Debugs	0900	1600	MON - FRI

b. Job Scheduling: Describe your job scheduling algorithm

1ST PRIORITY PROCESSING WIND TUNNEL DATA
 2ND PRIORITY FINAL DATA REDUCTION
 3RD PRIORITY MATH MODELS AND RESEARCH

c. Accounting Method:

Charges based on: ACCOUNTING LOG
 Billing algorithm: _____

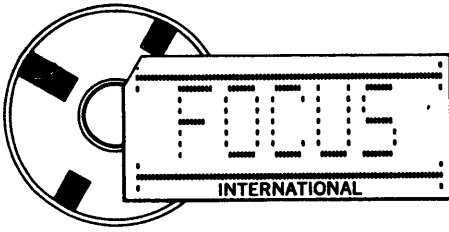
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: GOULD CLEVITE PLOTTER AND CALCOMP DISK

b. Software: COMPUTE CONTROL OF TEST CELL, MODEL ATTITUDE AND MODEL TRAJECTORIES

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. **CONTRIBUTING ORGANIZATION:** Applied Research Laboratories, The University
Installation Name
of Texas Austin Texas 78712
City State (Systems
2. **FOCUS CONTACT:** Herman R. Phillips Research Scientist Assoc. Programmer
Name Title
3. **DATE:** 72 / 8 / 8 4. **FOCUS INSTALLATION CODE:** ARUT
Yr. Mo. Day
5. **OBJECTIVES OF INSTALLATION:** To assist the research and data processing
personnel in their tasks by providing the required computing facilities and
services.

6. **HARDWARE (include vendor symbol on non-CDC Equipment):**

a. **CENTRAL SITE:**

(1) **Mainframe(s)**

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
CDC 3200	1	32K

(2) **Console(s)**

<u>Model</u>	<u>Quantity</u>
3201	1

(3) **Tape Transport(s)**

<u>Model</u>	<u>Quantity</u>
CDC 604	4

(4) **Disk(s)**

<u>Model</u>	<u>Quantity</u>
CDC 854	3

(5) **Card Reader(s)**

<u>Model</u>	<u>Quantity</u>
CDC 405	1

(6) **Line Printer(s)**

<u>Model</u>	<u>Quantity</u>
CDC 505	1

(7) **Data Cell(s)**

<u>Model</u>	<u>Quantity</u>
None	

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>Interface between Honeywell 516 - CDC 3200</u>	<u>1</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>3286/3288 A/D - D/A Converter</u>	<u>1</u>
<u>415 Card Punch</u>	<u>1</u>
<u>565 CALCOMP Plotter</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>3203 Memory</u>	<u>Cyclic</u>	<u>Memory Parity Errors</u>
<u>3204 CPU</u>	<u>Approx 1 per month</u>	<u>RTC start complementing, etc. Resync has to be aligned. FCO 21648 is installed.</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System Basic Disk Latest Update _____ PSR No. _____
Scope _____

b. Local Modifications (Add additional description if desired, as appendix)
854 Version originated with General Mills/CDC. It is a modified version of BDS V1.0 (852 version) available from CDC. Our own installation mods have also been included. Resident requires about 1700₁₀ locations. Permanent file capability (including auxiliary libraries) implemented.

c. QSS(s) (Quote Special Software)

- (1) None
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

<u>FORTRAN-32 V2.1</u>	<u>Updated through PSR Summary or Local Modifications:</u> <u>(854 Version and local mods)</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: None
- (2) Compilers and System Routines: None

b. In your opinion, CDC's response to your software request(s) has been: N/A

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	7:00 am	8:00 am	MTWTF
	1:00 am	8:00 am	Thurs.
Systems Work	Run with production		
Special Time Allotment	Machine is available for production runs anytime excluding pm and other needed maintenance.		
Production	8:00 am	6:00 pm	Monday - Friday
	After hours (as required)		
Debugs	Run with Production		

b. Job Scheduling: Describe your job scheduling algorithm

Three category priorities:

- (1) Listing and executable jobs ≤ 2 mins - Turnaround time ≤ 30 mins.
- (2) Jobs executing > 2 mins - Turnaround time $\leq 1-1/2$ hrs.
- (3) Jobs not requiring short turnaround - Turnaround time ≤ 24 hours

c. Accounting Method:

Charges based on: N/A

Billing algorithm: _____

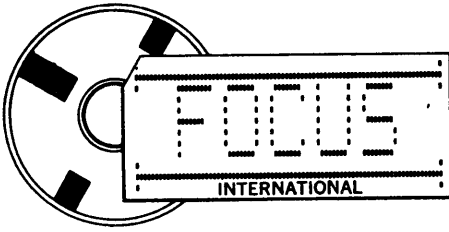
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: Faster tape drives, faster line printer

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: THE AEROSPACE CORPORATION
Installation Name
El Segundo California
City State
2. FOCUS CONTACT: Robert J. Mercer Section Manager
Name Title
3. DATE: 72 /Sept./ 7 4. FOCUS INSTALLATION CODE: ASC
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Provide computer support in a closed secure site.

6. HARDWARE (include vendor symbol on non-CDC Equipment): SEP 12 1972
OFFICE OF USER

a. CENTRAL SITE:

(1) Mainframe(s) GROUP LIAISON

Model	Quantity	Core (K)
<u>3804</u>	<u>1</u>	<u>65K</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)	Model	Quantity	(3) Tape Transport(s)	Model	Quantity
	<u>3801</u>	<u>1</u>		<u>607</u>	<u>8</u>
	_____	_____		_____	_____
	_____	_____		_____	_____

(4) Disk(s)	Model	Quantity	(5) Card Reader(s)	Model	Quantity
	<u>854</u>	<u>5</u>		<u>405</u>	<u>1</u>
	_____	_____		_____	_____
	_____	_____		_____	_____

(6) Line Printer(s)	Model	Quantity	(7) Data Cell(s)	Model	Quantity
	<u>501</u>	<u>1</u>		<u>None</u>	_____
	_____	_____		_____	_____
	_____	_____		_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

	<u>Description</u>	<u>Quantity</u>
3338	"SUMMIT mod.," channel 0	1
3339	"SUMMIT mod.," channel 2	1

(9) Other Devices

	<u>Description</u>	<u>Quantity</u>
	None	

b. REMOTE SITE(S):

(1) Computer(s)

	<u>Model</u>	<u>Quantity</u>
	None	

(2) Other Remote Devices

	<u>Description</u>	<u>Quantity</u>
	None	

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
501	intermittent	overprint
3803	one stack, once a month	parity errors

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent Very Good Good Fair Poor

8. SOFTWARE SYSTEMS

a. Current Operating System DISK SCOPE Latest Update 11/19/70 PSR No. unknown

b. Local Modifications (Add additional description if desired, as appendix)

Added second parameter to FILE
entry points like ~~MARKER~~, l.u.,
no. of file marks; ~~SKIP~~, l.u.,
no. of file marks; etc.

c. OSS(s) (Quote Special Software)

- (1) INFOL from SDC, Santa Monica
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>FORTRAN</u>	_____
<u>COBOL</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

Getting the latest PSR updates already punched.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: System hangs when unit not dialed in; cannot load programs
from system library when COMMON blocks vary in length; system loses print
strings on disasters.
- (2) Compilers and System Routines: FTN compiler tables exceeded because of large number
of variables in COMMON blocks.

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures 10-15 hours
Longest time period between hardware/software failures 100 hours

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	6:00 a.m.	8:00 a.m.	Monday
	6:00 a.m.	7:00 a.m.	Tuesday
	2:00 p.m.	6:00 p.m.	Wednesday
	6:00 a.m.	7:00 a.m.	Thursday & Friday
Systems Work	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

Various users under different classification systems use a block of time during the day. Evening hours are set aside for batch processing. A short period in the middle of the day is used for short compilations and checkout.

c. Accounting Method:

Charges based on: Total cost of using the computer is shared by three organizations.
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: Removal of the 3691 and addition of Varian plotter.
- b. Software: Write the software interface between the 3800 and the new plotter.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415 Card Punch	1
3316 Multiplexer Controller	1
304 Multiplexer	1
330 Data Set Adapter	5
332 Data Set Adapter	3

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
Various teletype compatible terminals	

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
Page file	3-10 times a week	Programs abort with E03 or E04 IAC which is not valid.
604	5-10 times a week	Unrecoverable read errors on tape files which were written without unrecoverable write errors.

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair Poor

Response and effort very good but the results (equipment reliability) is still poor.

8. SOFTWARE SYSTEMS

a. Current Operating System 2.1 Latest Update 5 Aug 1972 PSR No. 200+

b. Local Modifications (Add additional description if desired, as appendix)
We are in the process of converting to MASTER 3.3

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>MS COBOL</u>	<u>200+</u>
<u>USASI COBOL</u>	<u>200+</u>
<u>MS FORTRAN</u>	<u>200+</u>
<u>USASI FORTRAN</u>	<u>200+</u>
<u>MS SORT</u>	<u>200+</u>
<u>COSY</u>	<u>200+</u>
<u>COMPASS</u>	<u>200+</u>

e. Current Problems and Comments:

Task suspension is unsatisfactory.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: System hangs up for unknown reasons and we have to re-autoload.

(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures 1 day

Longest time period between hardware/software failures 1 week

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0000	0800	Monday
	0600	0730	Tuesday thru Friday
Systems Work	0000	0800	As required
Special Time Allotment			As required. Deferred to weekends and nights whenever possible.
Production	0000	2400	7 days a week except for PM, etc.
Debugs	0800	1800	Monday thru Friday

b. Job Scheduling: Describe your job scheduling algorithm
First in, first out.

c. Accounting Method:

Charges based on: CPU time plus channel time

Billing algorithm: _____

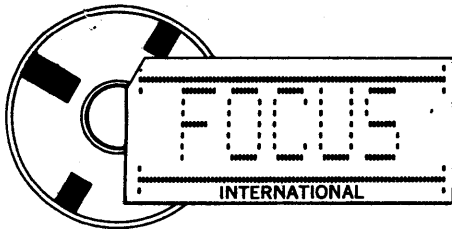
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: Expanding memory to 128K (K=1024)

b. Software: Converting to MASTER 3.3

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: The Broken Hill Proprietary Co. Ltd.
Installation Name
Newcastle N. S. W. Australia.
City State

2. FOCUS CONTACT: I. F. G. Henderson Manager Systems & Data Processing
Name Title

3. DATE: 72 / 08 / 22 4. FOCUS INSTALLATION CODE: BHP
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: Production Planning & Control
Commercial Systems
Technical & Scientific

Office of USER
SEP 5 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

GROUP LIAISON

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
3304, 3310, 3311, 3312	2	
3306, 3307	6	
3302	13	213

(2) Console(s)

Model	Quantity
3301	2

(3) Tape Transport(s)

Model	Quantity
604	10
3229	2
689	6

(4) Disk(s)

Model	Quantity
841/6	2
841/4	1
3553	3

(5) Card Reader(s)

Model	Quantity
405/3649	2

(6) Line Printer(s)

Model	Quantity
512/3555	2

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>4031 (Extra Memory Ports)</u>	<u>11</u>
<u>2221 (Channel Switches) 6960 (Opp. Channel Release)</u>	<u>7, 3</u>
<u>2143 (Parity Address) 4667 (Sense Assoc. Proc)</u>	<u>2, 2</u>
<u>4366 (Int. Priority) 4875 (Special Train)</u>	<u>2, 2</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>3316, 304, 217, 218, 3271</u>	<u>2, 2, 1, 1, 1</u>
<u>Rixon Modems, 311, 321, 60018</u>	<u>4, 3, 12, 1</u>
<u>Information Electronics, Industrial Displays (Idets)</u>	<u>10</u>
<u>415/3446, 3691</u>	<u>2, 1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>217</u>	<u>2</u>
<u>222</u>	<u>2</u>
<u>224</u>	<u>2</u>
<u>Rixon PM 24 Modems</u>	<u>2</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>604</u>	_____	<u>Lost data (cured by going to 3307 rather than 3306)</u>
<u>217</u>	_____	<u>Sticking keys.</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

Dual Processor Master V3 (QSS)

a. Current Operating System _____ Latest Update _____ PSR No. 255

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) BHP - On Line Communications System/D. P. Master
- (2) Opal/Master
- (3) Saint/Master
- (4) Simula/Master

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>ANSI COBOL</u>	<u>PSR 230, Reduced memory for object time routines, dump suppression param on ucabort.</u>
<u>MS COBOL</u>	<u>PSR 230</u>
<u>ANSI FORTRAN</u>	<u>PSR 230</u>
<u>MS FORTRAN</u>	<u>PSR 230</u>
<u>ALGOL</u>	<u>PSR 230</u>

e. ~~SOFTWARE PROBLEMS AND~~ Comments:

D. P. M. includes Processor and Communications Recovery, Shared Memory and Shared Files.
BHP-OLCS has Respond/Export-Import as a sub-system.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: Corruption of system scratch files by R/E-I;
Corruption of MSIO files (also occurs MASTER V3.0); Mag. tape problems.
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair X Poor

c. System Stability:

Mean time between hardware/software failures 24 hrs/6 hrs

Longest time period between hardware/software failures 52 hrs/24 hrs.

Hours quoted are Machine Hours per day per machine.

10. OPERATIONS

a. Schedule:

	From	To	Day of Week	
Preventive Maintenance	<u>2 hrs.</u>	<u>4 hrs.</u>	<u>Monday to Friday</u>	
Systems Work	<u>1/2 hr.</u>	<u>2 hrs.</u>	<u>"</u>	<u>"</u>
Special Time Allotment				
Production	<u>16 hrs.</u>	<u>20 hrs.</u>	<u>"</u>	<u>"</u>
Debugs (i. e. Program Test)	<u>3 hrs.</u>	<u>6 hrs.</u>	<u>"</u>	<u>"</u>

b. Job Scheduling: Describe your job scheduling algorithm

Jobs are scheduled according to priorities i. e. most important run.
Other jobs are run if they can fit in at the same time.

c. Accounting Method:

Charges based on: Each item of equipment has a rate - Users are charged generally
 Billing algorithm: on time usage.

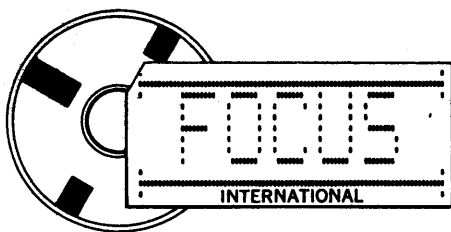
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

Intermittent problems experienced with B. D. P. and F. P. modules.
When these occur they seem difficult to diagnose and result in
excessive system down time.

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: Expansion of communications, involving display and hard copy data entry and enquiry devices, more 841 disk and 3302 core.
- b. Software: Continued improvement to current software.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: BICKLEY LABS
2351 RIDLEY CRK RD, MEDIA PA, 19063
City State

2. FOCUS CONTACT: LYLE BICKLEY PRESIDENT
Name Title

3. DATE: 8 / 28 / 72 4. FOCUS INSTALLATION CODE: BILA
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: SUPPORT DEVELOPMENT WORK OF LAB

OFFICE OF USER
 AUG 31 1972
 GROUP LIAISON

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
RPC-4010	1	8
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
RPC-4480	1
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
RPC-4437 CONTROL UNIT WITH:	1
TALLY MODEL 464 PAPER TAPE READER	1
TALLY MODEL 420 PAPER TAPE PUNCH	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System N/A Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

_____	_____
_____	_____
_____	_____
_____	_____

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>ROAR (ASSEMBLY)</u>	_____
<u>COMPACT (FORTRAN V)</u>	_____
<u>ACT IV (ON-LINE INTERACTIVE LANGUAGE)</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: _____

(2) Compilers and System Routines: _____

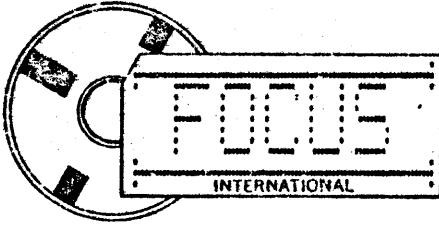
b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. **CONTRIBUTING ORGANIZATION:** DIVISION OF BIOMETRICS AND MEDICAL INFORMATION
Installation Name
PROCESSING, WALTER REED ARMY INSTITUTE WASHINGTON, D.C.
City State
OF RESEARCH
2. **FOCUS CONTACT:** Richard L. Corbett Chief, Systems technology Branch
Name Title
3. **DATE:** 72 / 08 / 28 4. **FOCUS INSTALLATION CODE:** BIP
Yr. Mo. Day
5. **OBJECTIVES OF INSTALLATION:** To advise and assist on experimental design, data processing, and analysis of all in-house and associated projects. To provide data processing service to research management, associated research projects and ADP activity assigned. Development of efficient systems for storage and retrieval of all significant research data.

6. **HARDWARE (include vendor symbol on non-CDC Equipment):**

OFFICE OF USER

SEP 11 1972

a. **CENTRAL SITE:**

(1) **Mainframe(s)**

Model	Quantity	Core (K)	GROUP LIAISON
3504-1	1	114	

(2) **Console(s)**

Model	Quantity
3501	1

(3) **Tape Transport(s)**

Model	Quantity
604	4

(4) **Disk(s)**

Model	Quantity
841	6

(5) **Card Reader(s)**

Model	Quantity
405	1

(6) **Line Printer(s)**

Model	Quantity
512	2

(7) **Data Cell(s)**

Model	Quantity

8. SOFTWARE SYSTEMS

a. Current Operating System 3500-Master ^{3.1} Latest Update _____ PSR No. 219 +

b. Local Modifications (Add additional description if desired, as appendix)
See attached sheet (Incl 1)

c. QSS(s) (Quote Special Software)
 (1) None
 (2) _____
 (3) _____
 (4) _____

d. Compiler and Library Routines :	Updated through PSR Summary or Local Modifications:
<u>USASI FORTRAN & USASI COBOL</u>	<u>219 +</u>
<u>RESPOND</u>	<u>219 +</u>
<u>MS AND Tape Sort</u>	<u>219 +</u>
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:
 (1) Operating System: _____

 (2) Compilers and System Routines: UCBLSORT (Core Utilization Problem)
Restart files being dumped under COBOL (output file size)

b. In your opinion, CDC's response to your software request(s) has been:
 _____ Excellent Very Good _____ Good _____ Fair _____ Poor

c. System Stability:
 Mean time between hardware/software failures 2 hours
 Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0600	0800	Monday, Wednesday, Friday
Systems Work	0800	1000	Thursday, Friday
Special Time Allotment	1200	2400	Saturday hands-on
	0001	2400	Sunday hands-on
Production	1630	0800	Monday - Friday
Debugs	0800	1630	Monday - Sunday

b. Job Scheduling: Describe your job scheduling algorithm

Each 24-hour period (0800-0800) is segmented into major utilization blocks such as software maintenance, hardware maintenance, program development and production. Within the development and production blocks scheduling is according to run priorities and multiprogramming capability.

c. Accounting Method:

Charges based on: No charge. Service is for a single government agency.
 Billing algorithm: Transfer of funds between government agencies may be accomplished.

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: Increase the number of Tape Drive Units, and change to 607's.
Increase disk packs, and core.
- b. Software: Making inquiries about feasibility of going to 3.2 or skipping this and going right to 3.3 .

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

Reference Page 4, paragraph 8c: Local Modifications

I. Sint-Overlay (SINTO).

A. Description of Task. Opens all system files (scratch, punch, output, restart, account), which are used by MASTER, at autoload time.

B. Changes.

1. Have included another file (SYSTEM-FIC-NUMBERS) which will also be opened along with other files at autoload time. This file (*FIC) contains all valid FIC user numbers (explained in more detail under Scheduler). If at any time there is something wrong with this file when the system is autoloading, the following message will appear on the typewriter console:

```
SINT 032 (CANT OPEN FIC *DEF EC= XXXX) NOTIFY SYSTEMS PEOPLE  
IF THIS MESSAGE APPEARS.
```

2. Have placed an option into this task that could be used if the above message appears and no systems people can be notified. By placing on jump switch 4 and re-autoloading the system, opening of the SYSTEM-FIC-NUMBERS file will not take place. The following messages will appear on the console typewriter:

```
JUMP SWITCH 4 IS ON *FIC FILE IS NOT OPEN* IF SJ4 IS TO  
STAY ON, TYPE RO, GO TO CONTINUE. RO, IF SJ4 IS NOT TO  
BE ON, TURN SJ4 OFF AND AUTOLOAD.
```

By typing RO,GO, normal operation will continue.

II. Scheduler (SCHED).

A. Description of Task. Used by MASTER to schedule all jobs which are entered into job stream.

B. Changes.

1. Have made changes to this master task which will check the account number which appears on the \$JOB card against all the numbers which are present in the SYSTEM-FIC-NUMBERS (*FIC) file. If a match is found, the number is considered valid and processing continues. If no match is found in *FIC, the number is considered invalid and the job is aborted-not processed. The following message appears on the console typewriter:

```
D JOB X *SCH 01 X=JOB ID
```

2. Have also placed an option into this routine which will allow the system to function properly without checking the validity of the account number. By placing on jump switch 4 (as in SINTO), the SYSTEM-FIC-NUMBERS file will not be opened and the validity routine in the scheduler will be bypassed and normal processing can continue.

III. Accounting Purge (SAP).

A. Description of Task. Used to purge all the accounting information off the system-account file (ACC) and place it on an output device (in our case-tape).

B. Changes. Have deleted several cards (7) from this task which were inserted by CDC personnel for some sort of accounting purposes which they themselves used. Have also changed this task so that when the task has finished purging all the information, it will write a standard CDC trailer on the end of the tape. This was found to be a necessity because the tape (output) contains a standard header label and the tape drive task (TPEX607) in our system, when encountering a labeled tape expects a trailer to be at the end of the tape. Originally, only an end-of-file (EOF) was written on the tape at the end of job.

IV. Initiator (INIT).

A. Description of Task. Used to initiate all the jobs that are scheduled and attempts to keep a balanced mixture of jobs in execution.

B. Changes. Have made changes to this task so that a time and a date will also be written on the console typewriter along with the starting message. The following message will now be printed on the console typewriter:

```
Job ID  
B XXXXXXXX TIME=HH/MM/SS DATE=MM/DD/YY
```

V. Terminator (Termite).

A. Description of Task. Used to terminate the processing of all jobs - normally or abnormally.

B. Changes. Have made changes to this task so that a time and a date will also be written on the console typewriter along with the ending message. The following message will now be printed on the console typewriter:

```
Job ID  
AT XXXXXXXX TIME=HH/MM/SS DATE=MM/DD/YY  
NT
```

VI. Director

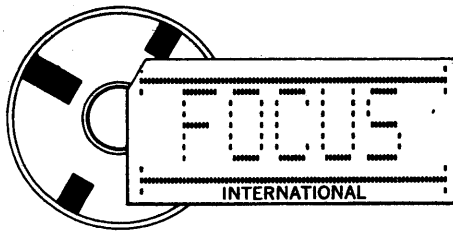
- A. Changes. Have made changes so that time and date are typed out on teletype when message "type system name" appears.

VII. Rsvo

- A. Changes. Have made changes so that date and time are typed out on the teletype when the "031 log out" message appears.

VIII. Opcompak.

- A. Changes. Changes added to type out on console what is available to the system in the way of core, tapes, scratch, printers and disk (class B only). Operator need only type "EC05,AV" and availability list will type out.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Bonneville Power Administration
Portland Oregon
City State
2. FOCUS CONTACT: Darrel G. VanCoeving Electrical Engineer
Name Title
3. DATE: / / 4. FOCUS INSTALLATION CODE: BPA
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Data Collection for the Management of Bonneville Power Administration Electric Power System

OFFICE OF USER

AUG 28 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

GROUP LIAISON

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
1704	1	32

(2) Console(s)

Model	Quantity
1587	3

(3) Tape Transport(s)

Model	Quantity
608	2

(4) Disk(s)

Model	Quantity
853	2

(5) Card Reader(s)

Model	Quantity
430	2

(6) Line Printer(s)

Model	Quantity
1742	1

(7) Data Cell(s)

Model	Quantity

FOCUS - 8 INSTALLATION REPORT

7. Hardware Problems

a. Recurring Hardware Problems:

Device - Stall Alarm

No. of Occurrences - Once per month

Nature of Failure - Core dump indicates an interrupt from stall alarm. There is absolutely no reason for stall, however. System is usually in idle state at lowest priority level.

8. SOFTWARE SYSTEMS

a. Current Operating System 2.1 Latest Update 7-24-72 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

Mint - Restor - independent of job processor
DR 1742 - mass resident-time delay release
Stall - Space - PW Fail - automatic restart
DR 1732 - time delay release

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

<u>Assembler</u>	<u>2.0</u>	<u>4-7-70</u>
<u>Compiler</u>	<u>2.0.A</u>	<u>1-26-71</u>

Updated through PSR Summary or Local Modifications:

Page Spacing

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: Cannot expand core-resident system because
Compiler will then not load.

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good X Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures One Week
 Longest time period between hardware/software failures Two Weeks

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0830	1030	Second working day of a week
Systems Work	1225 1625	1255 1655	Every working day but PM day
Special Time Allotment	1525	1555	when necessary
Production	24 hours minus PM and System Worktime		
Debugs	1225 1625	1255 1655	

b. Job Scheduling: Describe your job scheduling algorithm
24 Hour real-time process control - Jobs are not on a specific time-
table. Compiles may be run at any time. Users' jobs are run after
all data is entered from users and utilities

c. Accounting Method: Dedicated process control computer,
 Charges based on: We have no charge for jobs
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
The system is too small, giving us slow response time

12. FUTURE PLANS: Describe any future implementations to your current configuration:

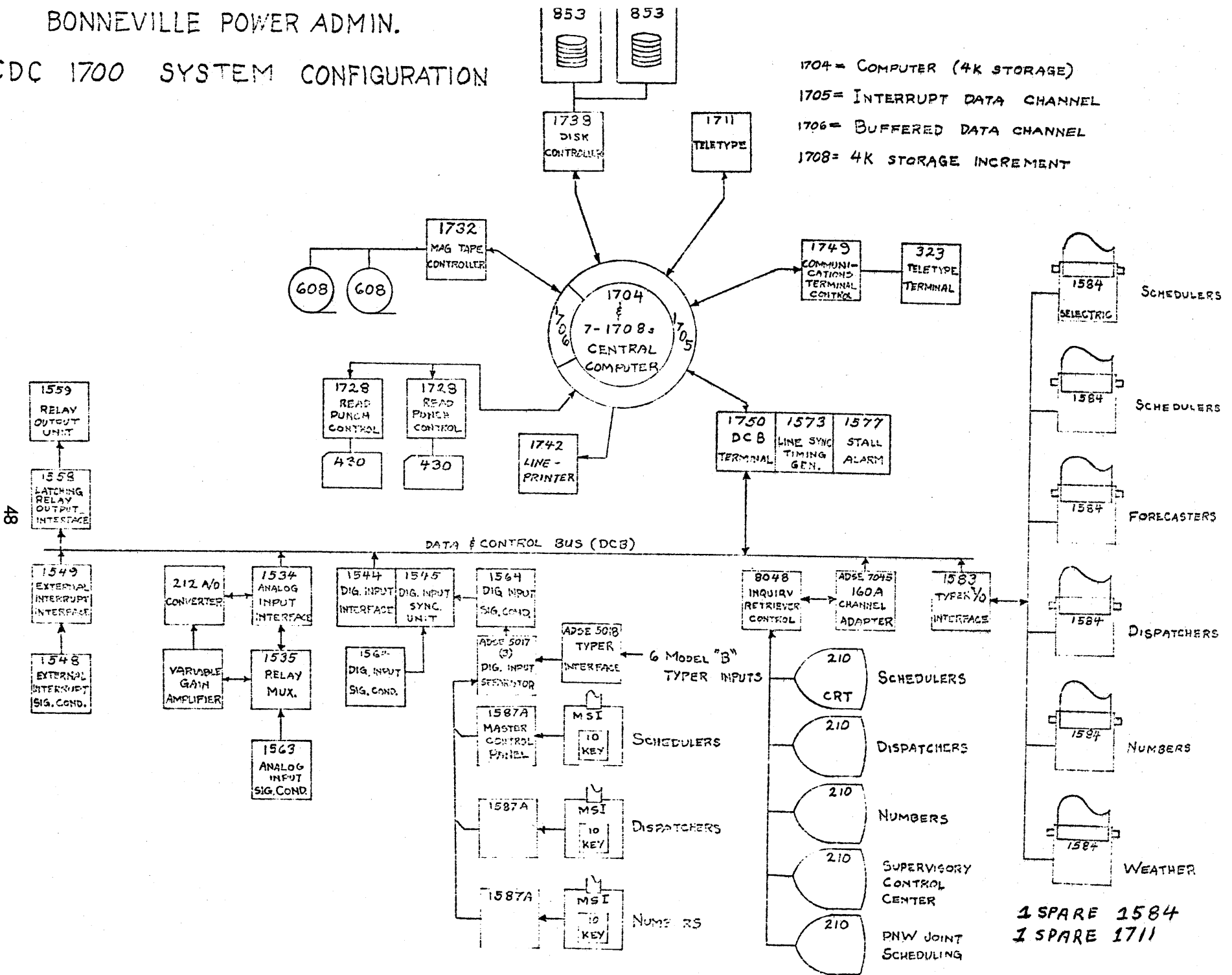
a. Hardware: None

b. Software: None

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

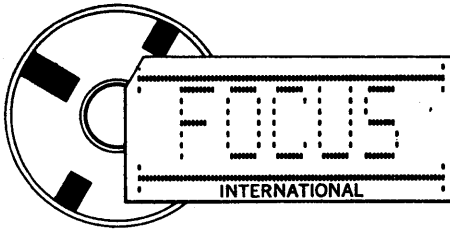
BONNEVILLE POWER ADMIN.

CDC 1700 SYSTEM CONFIGURATION



1704 = COMPUTER (4K STORAGE)
 1705 = INTERRUPT DATA CHANNEL
 1706 = BUFFERED DATA CHANNEL
 1708 = 4K STORAGE INCREMENT

1 SPARE 1584
 1 SPARE 1711



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Benefit Trust Life Insurance Company
1771 W. Howard St., Chicago Illinois
City State

2. FOCUS CONTACT: Mariano Rivera Manager, Technical Support Staff
Name Title

3. DATE: 72 / 08 / 18 4. FOCUS INSTALLATION CODE: BTLC
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: Business Data Processing. Insurance applications of all types.

OFFICE OF USER

AUG 21 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

GROUP LIAISON

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
3300	1	112

(2) Console(s)

Model	Quantity
3301	1

(3) Tape Transport(s)

Model	Quantity
604R	7

(4) Disk(s)

Model	Quantity
841	6

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
512	2

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
NONE	

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415	1
3290-4	1
211	8

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
3302 (MEMORY)	2 per month	Parity Error
604	2-3 per week	Irrec. Read Occurences have de- creased with addi- tion of FC0s.

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER 3.2 Latest Update _____ PSR No. 251 Selected 264

b. Local Modifications (Add additional description if desired, as appendix)

<u>Page Seperators Between Jobs</u>	<u>Improved Write-Recovery</u>
<u>Automatic Job Time Extension</u>	<u>In TPEX607</u>
<u>Remove Tape Label Search</u>	<u>Improved JMTR</u>
<u>Newsletter</u>	<u>Improved Special Forms (BK0)</u>
<u>Improved System-Accounting File</u>	<u>Assign INP, OUT, PUN to any open</u>
<u>Tape Error Tracking System</u>	<u>DSI (BLKDBLK)</u>

c. QSS(s) (Quote Special Software)

- (1) NONE
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

ANSI FORTRAN
ANSI COBOL

ANSI COBOL, MSFORTRAN, Pert-Time
Pert-Cost-on Auxillary Library

Updated through PSR Summary or Local Modifications:

264
264
Added Cross-Reference to ANSI COBOL

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: None major
- (2) Compilers and System Routines: ANSI COBOL End of Tape Processing.

b. In your opinion, CDC's response to your software request(s) has been:

Local Level: X Excellent _____ Very Good _____ Good _____ Fair _____ Poor
 Corporate Level: _____ " _____ " _____ " _____ " X "

c. System Stability:

Mean time between hardware/software failures 48 hours
 Longest time period between hardware/software failures 2 weeks

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	<u>0430</u>	<u>0830</u>	<u>Monday</u>
	<u>0430</u>	<u>0830</u>	<u>Wednesday</u>
Systems Work	<u>2400</u>	<u>0400</u>	<u>Monday A.M.</u>
	<u>AND AS NEEDED</u>		
Special Time Allotment	<u>0830</u>	<u>1630</u>	<u>Monday ~ Friday</u>
Production	<u>AROUND CLOCK</u>		<u>7 Days A Week</u>
	<u>(Except P.M. and Sys. Time)</u>		
Debugs	<u>0830</u>	<u>1630</u>	<u>Monday ~ Friday (w/Production)</u>

b. Job Scheduling: Describe your job scheduling algorithm

First In, First Out. Jobs requiring over 30 minutes of CPU and Chan. Time run after 1630.

c. Accounting Method:

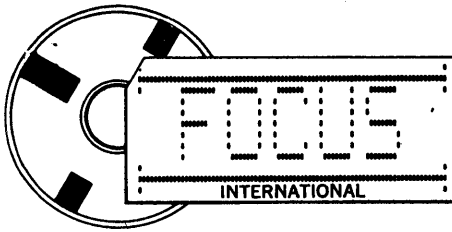
Charges based on: CPU and Channel Time or Lines Printed
 Billing algorithm: No internal billing.

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: 3312-B Enhanced B.D.P.
Additional Core and CRT's
 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: CALL-A-COMPUTER, INCORPORATED
WALTHAM City MASS. 02154 Installation Name State
2. FOCUS CONTACT: ROBERT L. HAMBLETON Name DIRECTOR, SPECIAL PROJECTS Title
3. DATE: 8 / 12 / 72 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: CAC
5. OBJECTIVES OF INSTALLATION: PROVIDE GENERAL COMMERCIAL TIME-SHARING SERVICES AND BATCH AND/OR BACKGROUND PROCESSING IN SUPPORT OF TIME-SHARING ACTIVITIES.

Office of User

SEP 5 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
3600	2	96/64

(2) Console(s)

Model	Quantity
3601	2

(3) Tape Transport(s)

Model	Quantity
604	4/4

(4) Disk(s)

Model	Quantity
854	32/6

(5) Card Reader(s)

Model	Quantity
405	1/1

(6) Line Printer(s)

Model	Quantity
3659	1

(7) Data Cell(s)

Model	Quantity
NONE	

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
NONE	

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
PDP-8/I INTERFACED VIA PDP-8/I	1/1
DATA BREAK AS I/O DEVICE VIA 3606 DATA CHANNEL.	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
HIS G265 (FORMERLY GE 265)	3

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
MODEL 33+35 TTY, 2741, ASCII 30CPS REMOTE TERMINALS	UP TO 80

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
854	(1) ERROR PER DAY	ADD. & CHECKWORD ERRORS
3603 (MEMORY)	(6) FAILURES PER YR.	OPERAND & INS. PARITY
863 (DRUMS)	(1) FAILURE PER MONTH	PARITY ERROR
3604 C.P.U.	(2) FAILURES PER YR.	INSTRUCTION FAILURE

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS DRUM SCOPE 2.1

a. Current Operating System CAC-T/S SYSTEM ~~Test~~ Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

NONE TO CDC SOFTWARE

c. QSS(s) (Quote Special Software)

- (1) NONE
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

STANDARD CDC DEPENDENT SYSTEMS. MODIFIED COMPASS TO SEARCH
FOR COSY DECK BY NAME ON LABEL
FIELD OF COSY CARD, AS S OPTION.

CAC TIME-SHARING FORTRAN, BASIC,
COMPASS, LOADER

e. Current Problems and Comments:

NO OUTSTANDING SOFTWARE PROBLEMS

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: OCCASIONAL DISASTERS OR LOSS OF I/O INTERRUPT
IN DRUM SCOPE

(2) Compilers and System Routines: MINOR FORTRAN AND COMPASS QUIRKS

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good X Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 20-24 HRS.

Longest time period between hardware/software failures 6 - 10 DAYS

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0000	0400	MONDAY (P.M.)
	0000	0200	TUES.-THURS. (P.M.)
Systems Work	1 HR.		
	0300	0400	MON - FRI.
Special Time Allotment	DEVELOPEMENT		SUNDAY
	0000	1200	
Production	0800	2400	MONDAY - SATURDAY
	1200	1700	SUNDAY
Debugs	2 HRS.		
	0400	0600	MONDAY, WEDNESDAY, FRIDAY

b. Job Scheduling: Describe your job scheduling algorithm

- TIME PRIORITIES
1. MAINTENANCE (HARDWARE & SOFTWARE)
 2. BILLABLE WORK (CUSTOMER)
 3. DEVELOPEMENT

c. Accounting Method:

Charges based on: BATCH \$300. HR. CPU CHARGES
 Billing algorithm: INCLUDES I/O PROCESSING

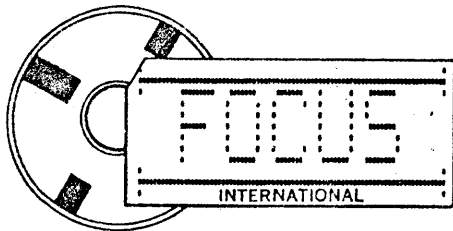
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
 HARDWARE IS VERY SENSITIVE TO ENVIROMENTAL PROBLEMS. A/C,
 POWER. MOST DOWN TIME OCCURS FOLLOWING PERIODS OF POOR
 RELIABILITY IN THESE AREAS.

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: ~~REPLACE 854 BY 841 OR 3330 EQUIVALENT IF POSSIBLE~~
 UPGRADE BOTH 3600-S TO 96K, 4-863 DRUMS (NOW 4/2). (CONT'D BELOW)
- b. Software: CONTINUED IMPROVEMENT AND ADDITIONAL POWER ADDED TO
 CURRENT CAC TIME-SHARING SYSTEM, AS LONG AS ECONOMICALLY
 JUSTIFIED.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

12A. POSSIBLE UPGRADE TO 3800 CPU AND MEMORY DEDICATE 3602 FOR DRUM CHANNEL.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: BUREAU OF CENSUS AND STATISTICS.
Installation Name
CANBERRA AUSTRALIA.
City State
2. FOCUS CONTACT: MR F.N BENNETT DIRECTOR, COMPUTER SERVICE CENTRE
Name Title
3. DATE: 72/9/8 4. FOCUS INSTALLATION CODE: CBCS
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: To provide an A.D.P service to the Bureau and other Government Departments.
All installations operate in a production environment processing statistical, financial + economic applications.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
3600	1	32K
3300 A	1	32K
3300 B	1	64K
3500	1	163K

(2) Console(s)

Model	Quantity
3600	1
3300	2
3514	1

(3) Tape Transport(s)

Model	Quantity
607	10
604	8
657	8
659	4

(4) Disk(s)

Model	Quantity
854	4
853	4
841-8	1

(5) Card Reader(s)

Model	Quantity
405	4

(6) Line Printer(s)

Model	Quantity
501	5
512	2

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

Description	Quantity
NONE	

(9) Other Devices

Description	Quantity
415 + 523 IBM Card Punches	1 of each
3694 Paper Tape Reader Punch	1
3293 Incremental Plotter	1
211 local Displays + 217 Remote Displays	5 + 7 respectively
200 User Terminal	

b. REMOTE SITE(S): - 6 other installations in the network comprising:

(1) - Computer(s)

Model	Quantity
3300	2
3200	6
160A	4

Peripheral Devices on these computers are:-

(2) Other Remote Devices

Description	Quantity
607, and 604 MTs	16 + 50 respectively
405 Card Readers + 523 + 415 Card Punches	8, 5, 1 respectively
501 Printers	8
3694 + 3691 Paper Tape Reader/Punches	3 and 6 respectively
854 + 853 Disk Units	6 and 4 respectively
211 local + 217 Remote Displays	2, and 7 respectively

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

Device	No. of Occurrences (Or Rate of Occurrences)	Nature of Failure
854/853 Units	12 per month	Read/Write Errors
3309 Core Module	2 per week	Core Parities
3606 Channel	1 per week	Channel Parities
3311 + 3312	1 per 8 weeks	

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS	MASTER	3-2	264
	MSOS -	4-2	264 237+
	MSOS-MP	4-2	264 237+
a. Current Operating System	TAPESCOPE	Latest Update	PSR No.
	3600 SCOPE		

b. Local Modifications (Add additional description if desired, as appendix)

None in MASTER system

Changes in MSOS ^{SCOPE} necessary to

ensure tape compatibility across

all systems. Release MSOS

not compatible with release MASTER in area of system noise records

c. QSS(s) (Quote Special Software)

- (1) None
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

Considerable problems were experienced due to system noise records, not

all of which are resolved due to inability of CDC to write a specification and

stick to it. My Company standard on tape error recovery is self-controlling - defines

a glossary initially and then ignoring the definitions.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: overwriting of resident monitor.
- (2) Compilers and System Routines: System idling unnecessarily due to states being
- locked up to high priority tasks, while low priority tasks are ready
- Poor design of new TSOAT - insertion of jump
- keys too much output on OCR, too much operator intervention
- designed to be operated by programmers not operators

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

Typical Schedule: Serial Processor.

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	1915	2145	Mon, Tue, Wed, Thur.
Systems Work	1530	1630	Every day
Debugs Special Time Allotment	01:30	02:00	Every day
	0415	0515	" "
	0945	1000	" "
	1630	1715	" "
Production	0000	0130	" "
	0200	0415	" "
	0515	0945	" "
	1000	1530	" "
Debugs	1715	1915	" "
	2145	2400	" "
	1915	2145	FRIDAY ONLY.

b. Job Scheduling: Describe your job scheduling algorithm

SERIAL PROCESSORS - Jobs are scheduled on a time slot basis for each user.

MULTI PROGRAMMING PROCESSORS - Jobs are run utilizing the MASTER algorithm. Development jobs are run as they arrive; production jobs tend to run during the evening.

c. Accounting Method:

Charges based on: Capital costs, salaries, consumables, maintenance, Site preparation costs.

Billing algorithm: National costs have been produced for job costing purposes.

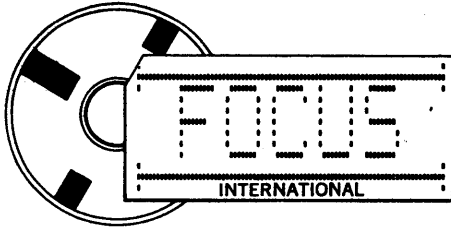
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: Further expansion of the communications network on the 3500 computer; possibly additional core on the 3300 computer.

b. Software: Additional mass storage on the 3500 computer.
Full implementation of a data base management system

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: CANADA CENTER FOR INLAND WATERS
Installation Name
BURLINGTON City ONTARIO, CANADA State
2. FOCUS CONTACT: H. C. PULLEY Name HEAD, COMPUTER SYSTEMS Title
3. DATE: 72/08/10 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: CCIW
5. OBJECTIVES OF INSTALLATION: PROVIDE COMPUTER SUPPORT FOR SCIENTIFIC RESEARCH INTO THE PROBLEMS OF POLLUTION AND GOOD MANAGEMENT OF THE GREAT LAKES AND OTHER FRESH WATER RESOURCES IN CANADA.

6. HARDWARE (include vendor symbol on non-CDC Equipment): OFFICE OF USER
AUG 29 1972

a. CENTRAL SITE:

(1) Mainframe(s)

GROUP LIAISON

Model	Quantity	Core (K)
<u>3300</u>	<u>1</u>	<u>32</u>
<u>DEC PDP-15</u>	<u>1</u>	<u>32</u>

(2) Console(s)

(3) Tape Transport(s)

Model	Quantity	Model	Quantity
<u>DEC GRAPHIC-15</u>	<u>1</u>	<u>607</u>	<u>3</u>
		<u>DEC TU-20</u>	<u>2</u>

(4) Disk(s)

(5) Card Reader(s)

Model	Quantity	Model	Quantity
<u>841-3</u>	<u>1</u>	<u>405</u>	<u>1</u>
<u>DEC RF-15</u>	<u>4</u>	<u>DEC</u>	<u>1</u>

(6) Line Printer(s)

(7) Data Cell(s)

Model	Quantity	Model	Quantity
<u>505</u>	<u>1</u>		
<u>DEC LP-15</u>	<u>1</u>		

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>405 CARD PUNCH</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>131K 6600 } MULTIPLE ACCESS LTD,</u>	<u>1</u>
<u>131K 3500 } TORONTO</u>	<u>1</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
CHANNEL D	HIGHLY INTERMITTENT	PARTY ERRORS

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent Very Good Good Fair Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS/STD Latest Update 4.2 PSR No. 254 + SEL.

b. Local Modifications (Add additional description if desired, as appendix)

NON-CDC SPOOL PROGRAM FOR OUTPUT
ANSI FORTRAN IS PRIMARY FORTRAN USED, MS FORTRAN ON AUX 4/B
ACCOUNTING COMPLETELY REWRITTEN

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>ANSI FORTRAN</u>	<u>270</u>
<u>COMPASS</u>	<u>254</u>
<u>BASIC</u>	<u>RELEASE</u>
<u>ALGOL</u>	<u>254</u>
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: NIL

(2) Compilers and System Routines: NIL

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent Very Good ____ Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 8 HOURS

Longest time period between hardware/software failures 24 + HOURS

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0730	0830	MON - WED, FRI
	0730	1200	THUR
Systems Work	1200	1300	DAILY
	1700	2000	AS REQUIRED
Special Time Allotment			
Production	0830	1200	MON - WED, FRI
	1300	1700	DAILY
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

OPERATORS SCHEDULE JOBS (PHYSICAL PLACEMENT IN CARD READER) TO INTERMIX TAPE/NON-TAPE JOBS, SHORT/LONG PRINTOUT, SHORT BEFORE LONG TIME REQUIREMENTS.

c. Accounting Method:

Charges based on: WALL TIME, TAPE MOUNTS, SYSTEM CRASHES
 Billing algorithm: \$180/HR, \$1.50/MOUNT, \$50/CRASH (USER'S FAULT)

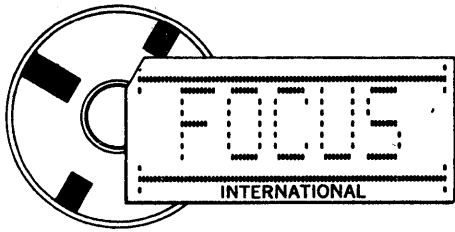
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: 131K 3170 (HOPEFULLY)

b. Software: MASTER

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: State of California, Dept. of Water Resources

Sacramento
City
California
State

2. FOCUS CONTACT: Charles W. Farrell Chief, Computer Systems Branch

3. DATE: 72/ 08 / 11 4. FOCUS INSTALLATION CODE: CDWR

5. OBJECTIVES OF INSTALLATION: To provide general data processing service for the Resources Agency. Major applications include Personnel Systems, General Accounting, State Water Project Cost Accounting, State Park Visitor Attendance System, Parks and Recreation Information System, and various engineering and mathematical calculation programs.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
3300	1	96

OFFICE OF USER

AUG 30 1972

GROUP LIAISON

(2) Console(s)

Model	Quantity
3301	1

(3) Tape Transport(s)

Model	Quantity
604	6

(4) Disk(s)

Model	Quantity
854	6

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
501	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
None	

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415 1 DJ 110/111 1	8909 1
D3805 1 8518/19 2	
FJ601 1 8536137 5	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
None	

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
200 User Terminal	1
TTY's	6

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
Memory	Once a month	Parity
Tape Drives	About 4 week	Parity 90% Read 10% Write
Channel	About once a day for 2 months	Transmission Parity

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER Latest Update 3.0 PSR No. 203

b. Local Modifications (Add additional description if desired, as appendix)

<u>Print "XXXX----X" between listings</u>	<u>Reduction in tape logging messages.</u>
<u>Computer job costing and accounting</u>	<u>New features added to RESPOND.</u>
<u>Work order verification</u>	

c. QSS(s) (Quote Special Software)

- (1) None
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

MS FORTRAN and COBOL
USASI FORTRAN & COBOL
Sorts

Updated through PSR Summary or Local Modifications:

All are updated thru PSR summary level 203

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: Task suspension loss of the input queue
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____
 Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>0000</u>	<u>0745</u>	<u>Monday</u>
	<u>0600</u>	<u>0745</u>	<u>Wednesday</u>
Systems Work	_____	_____	_____
Special Time Allotment	_____	_____	_____
Production	_____	_____	_____
Debugs	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm
First come, first served except for regular scheduled jobs.
Jobs with large memory requirements may be delayed until
RESPOND is off.

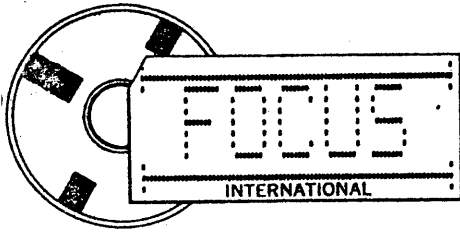
c. Accounting Method:
 Charges based on: CPU time, channel time, lines printed, cards read,
~~memory used~~: memory used, tape storage disk storage cards punched.

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: 854 disk drives exchanged for 841 disk drives.

 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: COMMUNITY ELECTROCARDIOGRAPHIC INTERPRETATIVE SERVICE
Installation Name
DENVER CO
City State

2. FOCUS CONTACT: JOHN M. THIMMIG
Name Title

3. DATE: 721 Aug 131 4. FOCUS INSTALLATION CODE: CEIS
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: ANALYZE AND PROCESS ELECTROCARDIOGRAMS
WHOSE OUTPUT BECOMES A COMPLETE DIAGNOSTIC INTERPRETATION
CEIS ALSO DOES RESEARCH IN APPLICATIONS OF COMPUTERS
IN MEDICINE

6. HARDWARE (include vendor symbol on non-CDC Equipment): OFFICE OF USER
SEP 11 1972

a. CENTRAL SITE:

(1) Mainframe(s)	Model	Quantity	Core (K)
	<u>1704</u>	<u>1</u>	<u>32</u>

(2) Console(s)	Model	Quantity	(3) Tape Transport(s)	Model	Quantity
	<u>1711</u>	<u>1</u>		<u>609</u>	<u>1</u>

(4) Disk(s)	Model	Quantity	(5) Card Reader(s)	Model	Quantity
	<u>854</u>	<u>2</u>		<u>430</u>	<u>1</u>

(6) Line Printer(s)	Model	Quantity	(7) Data Cell(s)	Model	Quantity
	<u>1742</u>	<u>1</u>			

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>CONSIDERABLE 1500 (ANALOG-DIGITAL) EQUIPMENT</u>	
<u>1749 COMMUNICATIONS WITH 4 LINES</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>1584 SELECTRIC I/O TYPEWRITER</u>	<u>11 TIMES IN 12 MO</u>	<u>SOLENOIDS AND CONTACTS OUT OF ADJUSTMENT</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	WORK AROUND THE "AROUND THE CLOCK" OPERATION		
Systems Work	WORK AROUND THE "AROUND THE CLOCK" OPERATION		
Special Time Allotment	NONE		
Production	{ 24 HOURS/DAY 7 DAYS/WEEK 365 DAYS/YEAR		
Debugs			
	ON LINE!		

b. Job Scheduling: Describe your job scheduling algorithm

THIS IS NOT A BATCH SYSTEM!
JOBS RUN ON A CALL IN BASIS - ON LINE

c. Accounting Method:

Charges based on: FEE FOR SERVICE (PER EKG BASIS)
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
ALL OF THEM ARE

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: ADDITIONAL COMMUNICATIONS AND ANALOG-DIGITAL EQUIP
- b. Software: SUPPORT AUTOMATIC DIALERS - DIGITAL TO ANALOG CONVERTERS - TIME SHARE - MEDICAL SYSTEMS - COMMUNICATIONS HANDLING

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

8. SOFTWARE SYSTEMS

a. Current Operating System CARDIOTEST Latest Update _____ PSR No. —

b. Local Modifications (Add additional description if desired, as appendix)

COMPILE + ASSEMBLE PROGRAMS
MAKE CARDIOTEST APPLICATIONS
USABLE

c. QSS(s) (Quote Special Software)

- (1) NONE
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

FORTRAN

e. Current Problems and Comments:

THERE ARE CURRENTLY NO HARDWARE DIAGNOSTICS
THAT MAY BE RUN ON "24 HOUR ON LINE SYSTEMS"

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

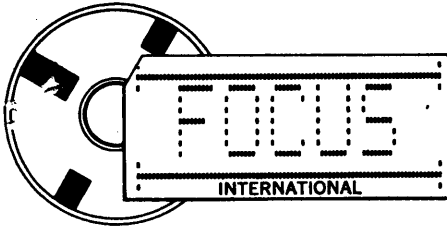
- (1) Operating System: POORLY ORGANIZED DRIVERS (1728, 1732)
- (2) Compilers and System Routines: INCOMPLETE COMPILER + ASSEMBLER
DIAGNOSTICS

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ^{TR} X Poor

c. System Stability:

Mean time between hardware/software failures 10 HOURS (HARDWARE VERY STABLE)
Longest time period between hardware/software failures 36 HOURS



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: CHEVROLET ENGINEERING CENTER
Installation Name
WARREN City MICHIGAN State

2. FOCUS CONTACT: JIM CALTRIDER Name SR. EXP. ENGINEER Title

3. DATE: 72/8/7 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: CHEC

5. OBJECTIVES OF INSTALLATION: DATA ACQUISITION, REDUCTION, AND REPORTING FOR REAL TIME EMISSION AND CARBURETOR DEVELOPMENT TESTS.

OFFICE OF USER
AUG 9 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

GROUP LIAISON

a. CENTRAL SITE:

(1) Mainframe(s)

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
<u>1704</u>	<u>1</u>	<u>32</u>

(2) Console(s)

<u>Model</u>	<u>Quantity</u>
<u>TTY</u>	<u>1</u>

(3) Tape Transport(s)

<u>Model</u>	<u>Quantity</u>
<u> </u>	

(4) Disk(s)

<u>Model</u>	<u>Quantity</u>
<u>853</u>	<u>2</u>

(5) Card Reader(s)

<u>Model</u>	<u>Quantity</u>
<u>1728/430</u>	<u>1</u>

(6) Line Printer(s)

<u>Model</u>	<u>Quantity</u>
<u>1742</u>	<u>1</u>

(7) Data Cell(s)

<u>Model</u>	<u>Quantity</u>

6. a. (8) OSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>CAL-COMP PLOTTER & INTERFACE</u>	<u>1</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>SELECTRIC TYPEWRITERS</u>	<u>7</u>
<u>HI & LO LEVEL ANALOG INPUT</u>	<u>64 + 192</u>
<u>DIGITAL I/O SUBSYSTEMS</u>	<u>384 BITS</u>
<u>7 CHANNEL ANALOG OUTPUT SUBSYSTEM</u>	<u>7 CHANNELS</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>IBM 1800, 48K memory, 2 tapes, card read punch, printer, disk, and digital and analog I/O subsystems</u>	<u>1</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 2.X Latest Update 10/71 PSR No. unknown

b. Local Modifications (Add additional description if desired, as appendix)

CALENDAR ROUTINE
TIME-OF-DAY ROUTINE
ANALOG SCAN PGM
MODIFIED TYPEWRITER DRIVER

c. QSS(s) (Quote Special Software)

(1) NONE
(2) _____
(3) _____
(4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

2.0A COMPILER USED UNKNOWN
MOST OF THE TIME -
SOMETIMES 2.0B "
STANDARD FTN LIBRARY "
CAL-COMP PLOT PGMS "

e. Current Problems and Comments:

JOB PROCESSOR SOMETIMES HANGS; BACKGROUND I/O DEVICE
FAILURES CAN HANG REAL TIME PROGRAMS;

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: SWAP TIME IS VERY HIGH & IS DONE AT HIGH
PRIORITY LEVEL; SYSTEM HAS NO OVERLAY CAPABILITY
(2) Compilers and System Routines: COMPILERS ARE LARGE & SLOW

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 1 MONTH
Longest time period between hardware/software failures 3 MONTHS

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	4 TO 6 HOURS		SUNDAY
Systems Work	6:20AM 11:20AM	7:20AM 11:50AM	DAILY (AS NEEDED) M-FRI DAILY " "
Special Time Allotment	6:20AM 11:20AM	7:20AM 11:50AM	DAILY M-FRI DAILY M-FRI
Production	7:20AM 11:50AM	11:20AM 11:30PM	DAILY M-SAT DAILY " "
Debugs	6:20AM 11:20AM	7:20AM 11:50AM	DAILY M-F " "

b. Job Scheduling: Describe your job scheduling algorithm

Most time critical jobs have the highest priority, in our real time work. Real time work takes precedence over production background which takes precedence over debug and development work.

c. Accounting Method:

Charges based on: no accounting
Billing algorithm: _____

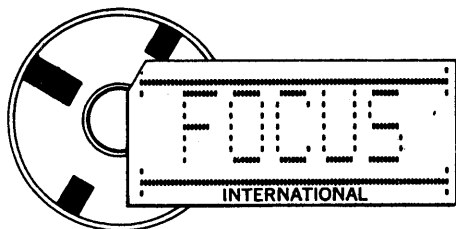
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

We seem to keep running out of core, which causes our system to run "swapped" some times, preventing background work.

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: perhaps 1714 mainframe with additional 8K of memory.
- b. Software: perhaps MFSOS 4.0 - perhaps modified 2.0 with changes to typewriter driver, typewriter scheduling, loader, and core resident test programs.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. **CONTRIBUTING ORGANIZATION:** CSIRO Division of Computing Research
Installation Name
P.O. Box 1800 Canberra City, ACT, 2601. Australia.
City State

2. **FOCUS CONTACT:** Dr. G.N. Lance Chief of Division
Name Title

3. **DATE:** 72/ 08 / 29 4. **FOCUS INSTALLATION CODE:** CSIR
Yr. Mo. Day

5. **OBJECTIVES OF INSTALLATION:** To provide a scientific computing service to scientists throughout Australia in CSIRO Divisions, Government Departments and Universities and to carry out research into computing currently in the fields of system development, computer graphics, picture and computer languages, voice interpretation, data base management and the application fields of numerical taxonomy, simulation structures.

6. **HARDWARE (include vendor symbol on non-CDC Equipment):**

OFFICE OF USER

SEP 11 1972

a. **CENTRAL SITE:**

(1) **Mainframe(s)**

GROUP LIAISON

Model	Quantity	Core (K)
3604	1	65
PDP11	1	8
PDP8	1	4

(2) **Console(s)**

(3) **Tape Transport(s)**

Model	Quantity	Model	Quantity
DD 210	6	607	8
TTY 713 etc.	25	Incremental (Kennedy)	1

(4) **Disk(s)**

(5) **Card Reader(s)**

Model	Quantity	Model	Quantity
813	2	405	1
854	1		

(6) **Line Printer(s)**

(7) **Data Cell(s)**

Model	Quantity	Model	Quantity
501	2		
3152	1		

6. a. (8) QSE(s) (Quote Special Equipment)

Description	Quantity
DD 250	1

(9) Other Devices

Description	Quantity
415 Card Punch	1
3293/565 Calcomp Plotter	1
3293/563 " "	1
3694 Paper Tape Stations	2
861 Drum	2

b. REMOTE SITE(S):

(1) Computer(s)

Model	Quantity
3204 16 K core/501, 405, 565 PL, 3691 PT, 603x3	3
PDP11 8 K communication interfaces	4

(2) Other Remote Devices

Description	Quantity
TTY's, 713's etc.	50

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

Device	No. of Occurrences (Or Rate of Occurrences)	Nature of Failure
415 CP	once / fortnight	mechanical
CPU	sporadic	various
813	Sporadic	various

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System DAD Latest Update n.a. PSR No. n.a.

b. Local Modifications (Add additional description if desired, as appendix) All Control Data compiler and ancillary systems modified to run under DAD monitor Similarly the CSIDISC (CSIRO Disc Monitor, based on Tape Scope), is in use on the 3200's.

c. QSS(s) (Quote Special Software) (1) A Fast Fortran compiler (KWIKTRAN) has been developed for the 3600. (2) (3) Communication software has been developed to handle remote batch and (4) interactive devices via PDP11 interfaced to both 3200's and the 3600.

d. Compiler and Library Routines : Updated through PSR Summary or Local Modifications: Emphasis on - Kwiktran, Fortran, Compass Sort, Infol, Simgscript at central site. Fortran, Compass, Sort at remote sites. Mainly local modifications

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems: (1) Operating System: NIL (2) Compilers and System Routines: NIL, although our experience with INFOL has not been a happy one.

b. In your opinion, CDC's response to your software request(s) has been: Excellent Very Good Good Fair Poor

c. System Stability: Mean time between hardware/software failures 3 days Longest time period between hardware/software failures 6 days

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance			
(a) Central Site	0630	0830	Monday - Friday
(b) Remote Sites	2100	2300	Monday - Friday
	Per Scheduled Program		Weekends.
Systems Work			
	Within Production Schedule		
Special Time Allotment	NIL		
Production			
(a) Central Site	0830	0630	Monday - Friday
(b) Remote Sites	0900	2100	Monday - Friday
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

- (a) Jobs are inserted into 14 execution queues based on job time limit. First Central queue is serviced half the time, second queue half the remaining time etc. Site Basically short jobs first, with occasional relief for longer jobs.
- (b) Priority is given to short jobs by manual Sorting.

Remote Sites

c. Accounting Method:

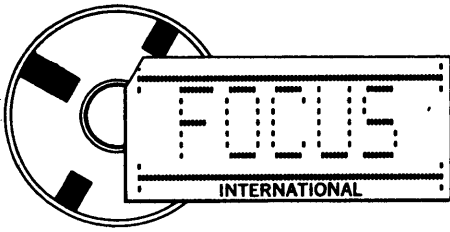
Charges based on: CPU Time and priority, with additional charges for I/O
 Billing algorithm: All charges are based on resource usage.

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: Provision for remote batch via the 3200's by interfacing PDP11 computers to 3200 channels
- b. Software: as appropriate for above.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: california state university
Installation Name
pomona City california State
2. FOCUS CONTACT: James P. Kilroy Name ADP Manager Title
3. DATE: 72 Yr. 08 Mo. 10 Day 4. FOCUS INSTALLATION CODE: CSPS
5. OBJECTIVES OF INSTALLATION:
to provide computer services to the
educational departments and to process administrative
data systems.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

DATE OF USER

AUG 11 1972

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core	GROUP LIAISON
350	1	32	

(2) Console(s)

Model	Quantity
3101	1

(3) Tape Transport(s)

Model	Quantity
BE 102	2

(4) Disk(s)

Model	Quantity
854	3

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
501	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

Description	Quantity
QSE 4617 modification to 311-2 JSA	1

(9) Other Devices

Description	Quantity
3266 communications terminal controller	1
311-2 data set adapter	1
Multitran 1172 multiplexor	1
IBM 4872 modem	1

b. REMOTE SITE(S):

(1) Computer(s)

Model	Quantity

(2) Other Remote Devices

Description	Quantity

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

Device	No. of Occurrences (Or Rate of Occurrences)	Nature of Failure
501 Printer	bi weekly	spacing
415 Reader	bi weekly	Realy light
Console typewriter	monthly	stacker Pad springs

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Latest Update V4.2 PSR No. 225

b. Local Modifications (Add additional description if desired, as appendix)

job accounting improvements

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>MS FORTRAN V4.2</u>	<u>PSR 225</u>
<u>MS COBOL v4.2</u>	<u>"</u>
<u>COMPASS V3.2</u>	<u>"</u>
<u>MS SORT V3.2</u>	<u>"</u>
<u>ALGOL V1.4</u>	<u>"</u>
<u>MSOS USASI FORTRAN V1.1</u>	<u>"</u>
<u>COSY V3.2</u>	<u>"</u>

e. Current Problems and Comments:

no major problems

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: periodic loss of job accounting information on system accounting file - problem circumvented, not fixed.
- (2) Compilers and System Routines: no major problems

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>0600</u>	<u>1000</u>	<u>Thursday</u>
Systems Work			
Special Time Allotment			
Production	<u>0800</u>	<u>0000</u>	<u>M-Thur-F</u>
	<u>0000</u>	<u>0800</u>	<u>M-Thur-F</u>
	<u>0800</u>	<u>1200</u>	<u>Sat</u>
	<u>0800</u>	<u>1700</u>	<u>Sun.</u>
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

Batch

c. Accounting Method:

Charges based on: Wallclock

Billing algorithm: _____

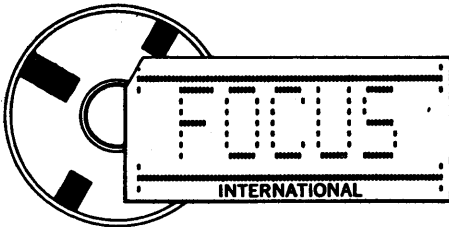
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: MIT Charles Stark Draper
Installation Name
Cambridge Mass
City State
2. FOCUS CONTACT: JOHN W. HURST, Assoc. Director
Name Title
3. DATE: 8/24/72 4. FOCUS INSTALLATION CODE: DLAB
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: LGP-30 retired and
declared surplus. Please remove
our organization from membership
rolls.

John W. Hurst

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
<u>LGP-30</u>	<u>1</u>	<u>GROUP LIAISON</u>
_____	_____	_____
_____	_____	_____

OFFICE OF USER
AUG 28 1972

(2) Console(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____

(3) Tape Transport(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____

(4) Disk(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____

(5) Card Reader(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____

(6) Line Printer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____

(7) Data Cell(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System _____ Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____

- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

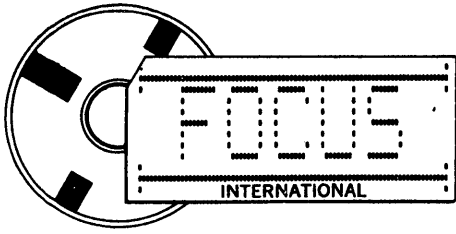
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: DuPont - Textile Research DPTR
Installation Name
Chestnut Run, Wilmington DELAWARE 19898
City State
2. FOCUS CONTACT: E. E. Culpeper Group Supervisor
Name Title
3. DATE: 8/7/72 4. FOCUS INSTALLATION CODE: DPTR
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION:
(1) PROCESS TENSILE TEST DATA FROM INSTRONS
IN REAL TIME
(2) MAKE VARIOUS STATISTICAL ANALYSES
FOR FIBERS RESEARCH

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

AUG 10 1972

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (GROUP LIAISON)
<u>1704</u>	<u>1</u>	<u>8</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
<u>1712</u>	<u>1</u>
<u>Model 35 TELETYPE</u>	<u>1</u>
_____	_____

(3) Tape Transport(s)

Model	Quantity
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
(1) High SPEED INTERFACE	1
(2) Low SPEED INTERFACE	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
MODEL 33RO TELETYPE	12
MODEL 33 UKS01 KEYBOARDS	12
1723 TAPE PUNCH	1
1721 TAPE READER	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
DIGITAL EQUIPMENT PDP-10	2
UNIVAC 1108	1

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent Very Good Good Fair Poor

8. SOFTWARE SYSTEMS

a. Current Operating System SPECIAL Latest Update PSR No.

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____

- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures 1 WEEK
Longest time period between hardware/software failures 1 MONTH

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	6 AM	8 AM	ONCE IN 3 MONTHS OR AS REQUIRED
Systems Work			
Special Time Allotment			
Production	8 AM	12 PM	5
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: FIXED RATE OF X DOLLARS/HR.
 Billing algorithm: _____

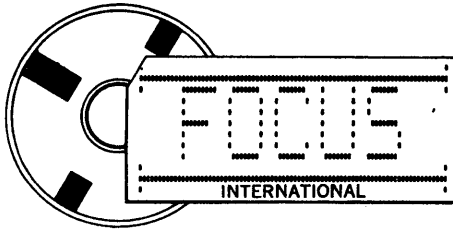
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Duquesne University
Installation Name
Pittsburgh City Pa. 15219 State
2. FOCUS CONTACT: James R. Hayes Name Mgr. Director Title
3. DATE: 72 / 08 / 09 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: DUQ
5. OBJECTIVES OF INSTALLATION:
Processing of Student & Academic Administrative Work.

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment): AUG 14 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3200</u>	<u>1</u>	<u>32 K Words</u>

(2) Console(s)

Model	Quantity

(3) Tape Transport(s)

Model	Quantity
<u>601</u>	<u>4</u>

(4) Disk(s)

Model	Quantity
<u>854</u>	<u>4</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>

(6) Line Printer(s)

Model	Quantity
<u>501</u>	<u>1</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences</u> (Or Rate of Occurrences)	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS MSOS

a. Current Operating System 4.0 Latest Update _____ PSR No. 250

b. Local Modifications (Add additional description if desired, as appendix)

<u>Local Job Accounting</u>	

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>Fortran</u>	
<u>Cobol</u>	

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: _____

(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	7	11	Monday
	7	9	Thursday
	7	9	Friday
Systems Work	_____	_____	_____
Special Time Allotment	_____	_____	_____
Production	_____	_____	_____
Debugs	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

Student Jobs Highest Priority

Administrative Work Next

Systems Work Last

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

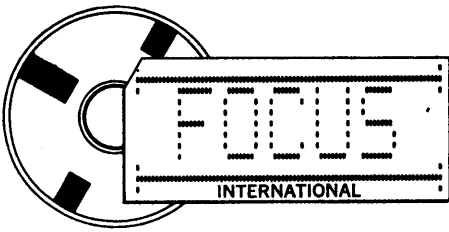
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: ELECTRIC MACHINERY MFG, CO.
Installation Name
MINNEAPOLIS MINNESOTA
City State

2. FOCUS CONTACT: D. T. BERG MNGR, SYSTEMS & DATA PROC.
Name Title

3. DATE: 7/9/6 4. FOCUS INSTALLATION CODE: EM
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: COMPANY WIDE COMMERCIAL
AND SCIENTIFIC DATA PROCESSING

OFFICE OF USER

SEP 11 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment): **GROUP LIAISON**

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3150</u>	<u>1</u>	<u>32K</u>

(2) Console(s)

Model	Quantity
<u>3150</u>	<u>1</u>

(3) Tape Transport(s)

Model	Quantity
<u>601</u>	<u>2</u>

(4) Disk(s)

Model	Quantity
<u>854</u>	<u>4</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>2</u>

(6) Line Printer(s)

Model	Quantity
<u>501</u>	<u>1</u>
<u>3254</u>	<u>1</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>3691 PAPER TAPE READER - PUNCH</u>	<u>1</u>
<u>415 CARD PUNCH</u>	<u>1</u>
<u>663 CAL COMP PLOTTER #770 TAPE</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>415 CARD PUNCH</u>	<u>FREQUENT</u>	<u>COMPARE ERRORS (LEGITIMATE & FALSE)</u>
<u>405 CARD READER</u>		<u>SLIPS CARDS DURING WAIT STATUS</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 3.0 Latest Update _____ PSR No. 254

b. Local Modifications (Add additional description if desired, as appendix)

MSOS 3.0 - MODIFIED TO ALLOW ROLL-OUT OF
CENTRAL SITE JOB FOR ENGINEERING TERMINAL
JOB.

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>COBOL</u>	<u>PSR SUMMARY</u>
<u>FORTRAN</u>	<u>" "</u>
<u>COMPASS</u>	<u>" "</u>
<u>ADAPT</u>	<u>LOCAL MODIFICATIONS</u>
<u>LISA</u>	<u>PSR SUMMARY</u>

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: OUR MSD IS 3 BLOCKS IN LENGTH - WE OCCASIONALLY
LOSE THE POINTER FROM BLOCK ONE (1) TO BLOCK TWO (2)
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 5.2 HOURS (WALL CLOCK)
Longest time period between hardware/software failures 144 HOURS (WALL CLOCK)

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>5:30 AM</u>	<u>9:30 AM</u>	<u>MONDAY</u>
	<u>6:00 AM</u>	<u>9:00 AM</u>	<u>WEDNESDAY</u>
Systems Work	<u>ON REQUEST AS</u>	<u>NEEDED</u>	
Special Time Allotment	<u>3 SHIFTS / DAY</u>		
	<u>5 DAYS / WEEK</u>		
Production			
Debugs	<u>10:30</u>	<u>11:30</u>	<u>MON, TUES, WED, FRI</u>
	<u>2:00</u>	<u>3:00</u>	<u>MON, TUES, WED, FRI</u>

b. Job Scheduling: Describe your job scheduling algorithm

MONTHLY SCHEDULE PREPARED PRIOR TO 1ST DAY OF EACH MONTH.
SPECIFIC ASSIGNMENTS ARE SCHEDULED FOR EACH HOUR OF
EACH DAY. OPEN TIME (SPECIAL TIME ALLOTMENTS) IS
STRATEGICALLY PROVIDED FOR AS POSSIBLE.

c. Accounting Method:

Charges based on: EXPENSED AS PART OF DATA PROCESSING BUDGET

Billing algorithm: WALL CLOCK USE RECORDING SYSTEM FOR USAGE STUDIES

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

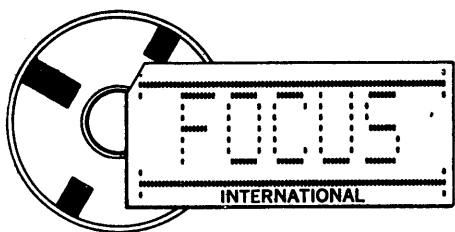
INADEQUATE HARDWARE DIAGNOSTICS

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: UPDATE TO 3170

b. Software: MASTER

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: EL PASO COUNTY
Colo. Spr City Colo Installation Name
State
2. FOCUS CONTACT: DICK VOGEL Name Title
3. DATE: 72 / 8 / 18 4. FOCUS INSTALLATION CODE: EPC
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: LOCAL GOVERNMENT COMPUTING

OFFICE OF USER

AUG 11 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>1604 B</u>	<u>1</u>	<u>32 K</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>606</u>	<u>4</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>501</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415 CARD PUNCH	1
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
NONE	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent Very Good Good Fair Poor

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>6:00 AM</u>	<u>8:00 AM</u>	<u>5</u>
Systems Work			<u>UNSCHEDULED</u>
Special Time Allotment			
Production	<u>8:00 AM</u>	<u>9:00 PM</u>	
Debugs			<u>UNSCHEDULED</u>

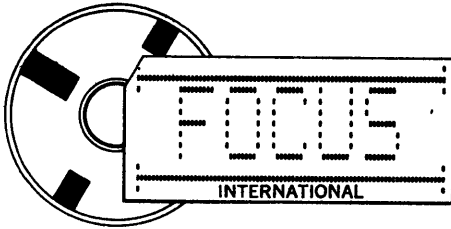
b. Job Scheduling: Describe your job scheduling algorithm
BATCH

c. Accounting Method:
 Charges based on: EST. TIME
 Billing algorithm: NONE

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
NONE

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: - WOULD LIKE PLOTTING & ADDITIONAL TAPES
 b. Software:

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: MOTOROLA SPD
Installation Name
PHOENIX AZ.
City State
2. FOCUS CONTACT: DICK AZZI PROG. MGR
Name Title
3. DATE: 72/ 8 / 20 4. FOCUS INSTALLATION CODE: EPI
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: MFG CONTROL APPLICATIONS

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER
 AUG 28 1972
 GROUP LIAISON

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>1700</u>	<u>2</u>	<u>32K EACH</u>

(2) Console(s)

Model	Quantity

(3) Tape Transport(s)

Model	Quantity

(4) Disk(s)

Model	Quantity
<u>853</u>	<u>3</u>

(5) Card Reader(s)

Model	Quantity
<u>430</u>	<u>2</u>

(6) Line Printer(s)

Model	Quantity
<u>1742</u>	<u>1</u>
<u>DATA PR0D</u>	<u>1</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System **MSOS 2.1** Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

_____	_____
_____	_____
_____	_____
_____	_____

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: **NONE** _____
- _____
- (2) Compilers and System Routines: _____
- _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>5 AM</u>	<u>6 AM</u>	<u>DAILY</u>
Systems Work			
Special Time Allotment			
Production	<u>6 AM</u>	<u>1 AM</u>	<u>DAILY</u>
Debugs	<u>1 AM</u>	<u>5 AM</u>	<u>DAILY</u>

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

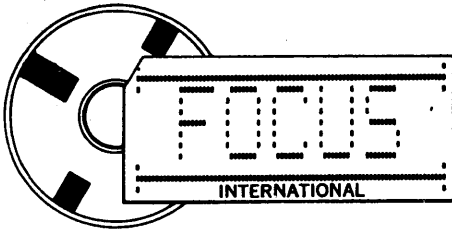
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. **CONTRIBUTING ORGANIZATION:** Central & Southern Florida Flood Control District
Installation Name
West Palm Beach Florida
City State
2. **FOCUS CONTACT:** William B. Stelwagon, Jr. EDP Manager
Name Title
3. **DATE:** 72/ 8 / 21 4. **FOCUS INSTALLATION CODE:** FCD
Yr. Mo. Day
5. **OBJECTIVES OF INSTALLATION:**
 (1) Support real time Telementary system.
 (2) Process Engineering and Financial data.

OFFICE OF USER

AUG 25 1972

6. **HARDWARE (include vendor symbol on non-CDC Equipment):**

GROUP LIAISON

a. **CENTRAL SITE:**

(1) **Mainframe(s)**

Model	Quantity	Core (K)
3114	1	32K
* 3114	1	32K

(2) **Console(s)**

Model	Quantity
3101	1
*3101	1

(3) **Tape Transport(s)**

Model	Quantity
604	3
* 604	1
PEC 5091	1

(4) **Disk(s)**

Model	Quantity
854	4
* 854	1

(5) **Card Reader(s)**

Model	Quantity
405 (ASCII)	1
* 405 (ASCII)	1

(6) **Line Printer(s)**

Model	Quantity
501	1
* 3256	1

(7) **Data Cell(s)**

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
Automatic Restart	1
* Automatic Restart	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415 Card punch (ASCII) (1), * 3266 Comm. term. Controller (2)	(2)
* 8271D Transfer switch (1), 3691 Paper tape reader/punch (1),	(1)
10018 Floating point (1), and *10018 Floating point (1).	(1)

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

* To be delivered December 1972.

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences</u> (Or Rate of Occurrences)	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been: (To new to evaluate)

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Latest Update MSOS 4.2 PSR No. 237

b. Local Modifications (Add additional description if desired, as appendix)
None at present.

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been: (To new to evaluate)

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability: (To new to evaluate)

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	7:00 AM	9:00 AM	Mon., Wed., and Friday
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

No other schedule at this date.

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: CPU time

Billing algorithm: Monthly charge/(Hours used - down time)

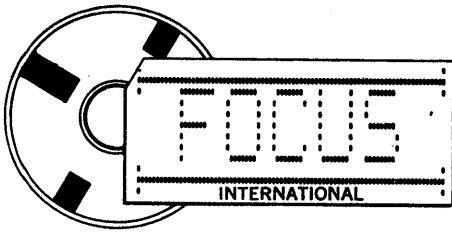
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

Most software problems have been a result poor and incomplete
documentation.

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware:** Noted on page 1 and page 2.
- _____
- b. Software:** Telementary system software under contract.
- _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: FRANKFORD ARSENAL
Installation Name
Philadelphia Pennsylvania
City State
2. FOCUS CONTACT: Esther Gresham MATH Technician
Name Title
3. DATE: 7 21 8 1 30 4. FOCUS INSTALLATION CODE: FCED
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Optical Design

OFFICE OF USER
 SEP 11 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment): **GROUP LIAISON**

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>LGP 30</u>	<u>2</u>	<u>4096</u>
<u>G 15</u>	<u>1</u>	<u>4096</u>

(2) Console(s)	Model	Quantity	(3) Tape Transport(s)	Model	Quantity

(4) Disk(s)	Model	Quantity	(5) Card Reader(s)	Model	Quantity
				<u>924-2</u>	<u>1</u>

(6) Line Printer(s)	Model	Quantity	(7) Data Cell(s)	Model	Quantity
	<u>222</u>	<u>1</u>			

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
CDC Display Station	1
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System Scope 3.3 Latest Update 4/18/77 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

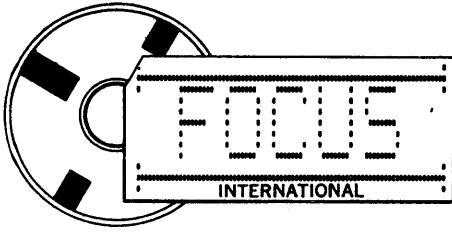
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: MULTIPLE ACCESS LIMITED
Installation Name
Toronto Ontario, Canada
City State
2. FOCUS CONTACT: Dennis Thomas Manager, Systems Software
Name Title
3. DATE: 72 / 09 / 04 4. FOCUS INSTALLATION CODE: GCCL
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Marketing of computer resources and application packages through the use of low and high speed terminals and over the counter facilities.

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

SEP 12 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
3500	1	131 K
6600	1	131 K

(2) Console(s)

Model	Quantity
typewriter	1
6612	1

(3) Tape Transport(s)

Model	Quantity
607	4
*607	6

(4) Disk(s)

Model	Quantity
841-8	1
854	13
*841-8	2
841-4	1

(5) Card Reader(s)

Model	Quantity
405	1
*405	1

(6) Line Printer(s)

Model	Quantity
512	1
*512	2

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
3316	1
304 48 dial up ports	6
303	1
*6671	2
3682 satellite coupler	1
CALCOMP Plotter	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
TTY compatible terminals 110+300 baud	Many
several Teltech concentrators	3
2 Port floaters	2

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
Memory	3-4/mo	Parity
3316	3-4/mo	Memory
841's, 854's	Average 1 per week	Drive and/or controller failures
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER 2.1 Latest Update -- PSR No. --

b. Local Modifications (Add additional description if desired, as appendix)

Many major changes including: Easy to use control cards
Task suspension that works English IAC, VAC messages
Accounting MODS Interactive terminal subsystem
Security added for files, jobs, Text editing + RJE subsystem
terminals

c. OSS(s) Software to pass files and jobs between 3500 and 6600 via 3682.
(Quote Special Software)

- (1) NONE
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

<u>MS FTN</u>	<u>Updated through PSR Summary or Local Modifications:</u>
<u>FTNU 2.1</u>	<u>Master 2.1 plus local MODS</u>
<u>UCBL 2.1</u>	<u>PSR Level 243</u>
<u>ALGOL</u>	<u>PSR Level 243 + Local MODS</u>
<u>BASIC</u>	<u>Master 2.0 Release</u>
<u>TSRT 3.0</u>	<u>--</u>

e. Current Problems and Comments:

Use cap tapes only for ANSI compilers and SORTS.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: FTNU Bad Index register code, UCBL Misc.
compiler and run time bugs.

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 24 hours
 Longest time period between hardware/software failures 5 days

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>12 a.m.</u>	<u>6 p.m.</u>	<u>Monday</u>
	<u>4 a.m.</u>	<u>6 a.m.</u>	<u>Tuesday, Thursday</u>
Systems Work	<u>12 a.m.</u>	<u>11 p.m.</u>	<u>Sunday</u>
	<u>11 p.m.</u>	<u>3 a.m.</u>	<u>Monday - Saturday</u>
Special Time Allotment			
Production	<u>8 a.m.</u>	<u>11 p.m.</u>	<u>Monday - Saturday</u>
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

Close to standard Master.

c. Accounting Method:

Charges based on: CPU time, memory, tapes, lines, cards read-punched.

Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

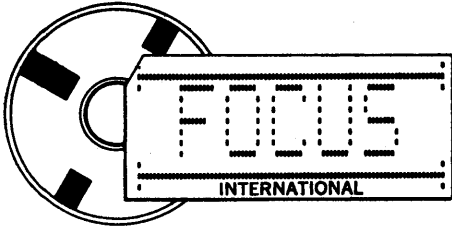
We have had to put a lot of effort into keeping many files (10,000) intact in spite of recurring disk problems. CDC's software doesn't help.

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: More 304's, 303.

b. Software: Faster *DEF, Better Throughput.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: SINGER-LIBRASCOPE
Installation Name
GLENDALE City CALIF. State

2. FOCUS CONTACT: CHARLES F. WHITE Name MANAGER Title EDP

3. DATE: 72 Yr. 8 Mo. 28 Day 4. FOCUS INSTALLATION CODE: GPL

5. OBJECTIVES OF INSTALLATION: TO PROVIDE THE OPERATING AREAS OF FINANCE, MANUFACTURING, & ENGINEERING WITH THE INFORMATION & SERVICE NECESSARY FOR THEM TO PERFORM THEIR TASKS OF DAY TO DAY OPERATIONS

6. HARDWARE (include vendor symbol on non-CDC Equipment): OFFICE OF USER
AUG 31 1972

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	GROUP LIAISON Core (K)
3300	1	32K

(2) Console(s)

Model	Quantity
3301	1

(3) Tape Transport(s)

Model	Quantity
604	4

(4) Disk(s)

Model	Quantity
841	4

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
1403-IBM	1
50-58M	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>3266 COMMUNICATION MULTIPLEXOR</u>	<u>1</u>
<u>3694 PAPER TAPE READER/PUNCH</u>	<u>1</u>
<u>2020 DATA COMPILERS</u>	<u>2</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>H 2000 CRT DISPLAYS</u>	<u>2</u>
<u>200 USER TERMINAL</u>	<u>1</u>
<u>1010 DATA TRANSACTORS</u>	<u>18</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>NOTHING OF MAJOR SIGNIFICANCE</u>		
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 4.2 Latest Update _____

PSR No. 272

b. Local Modifications (Add additional description if desired, as appendix)

MODIFIED AUTOLOAD PROCEEDURE
MODIFIED CONSOLE LOGGING
MESSAGES

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>MS COBOL, ANS COBOL,</u>	_____
<u>MIS FORTRAN, ALL STANDARD</u>	_____
<u>UTILITIES, SAINT</u>	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: NOTHING OF MAJOR SIGNIFICANCE RELATED TO FAILURES - IT JUST KEEPS GETTING BIGGER !!
- (2) Compilers and System Routines: ANS-COBOL IS OVERLY ENDOWED WITH BUGS & RELATED PSR's.

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good X Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	1:00PM	5:30PM	TUESDAY
	11:30AM	1:30PM	FRIDAY
Systems Work			
Special Time Allotment			AS REQUIRED
Production	ALL OTHER TIME NOT ACCOUNTED FOR ON A FIVE DAY, THREE SHIFT SCHEDULE		
Debugs	9:00AM	10:00AM	MONDAY - FRIDAY
	12:00PM	1:00PM	" "
	9:00PM	10:PM	" "
	ANY SPECIAL		PRE-ARRANGED

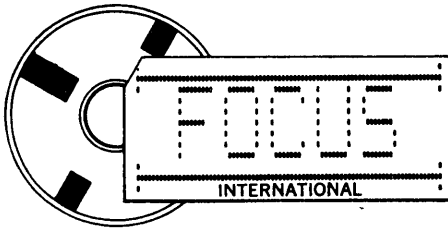
b. Job Scheduling: Describe your job scheduling algorithm
BATCH PROCESSING AS DICTATED BY MANUFACTURING & FINANCIAL SCHEDULES

c. Accounting Method:
 Charges based on: ELAPSED WALL CLOCK TIME
 Billing algorithm: ACTUAL LABOR, MATERIAL, & EQUIPMENT USED IS BILLED TO USERS

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: INCREASE CORE & DISK CAPACITY - REPLACE DATA COLLECTION EQUIPMENT
 b. Software: MSOS 5.0 OR MASTER

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: GETTY OIL COMPANY (EASTERN OPNS)
DELAWARE CITY DEL 1970
City State
2. FOCUS CONTACT: C. E. ECKFIELD SUPV. OPNS. ANALYSIS
Name Title
3. DATE: 72 / 08 / 23 4. FOCUS INSTALLATION CODE: GTY
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: PROCESS CONTROL AND DATA ACQUISITION

OFFICE OF USER

AUG 29 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment): **GROUP LIAISON**

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>1700</u>	<u>2</u>	<u>32</u>

(2) Console(s)

Model	Quantity
<u>1587</u>	<u>9</u>

(3) Tape Transport(s)

Model	Quantity

(4) Disk(s)

Model	Quantity
<u>1751</u>	<u>2</u>

(5) Card Reader(s)

Model	Quantity
<u>1729</u>	<u>1</u>
<u>430</u>	<u>2</u>

(6) Line Printer(s)

Model	Quantity
<u>1742</u>	<u>2</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>1711 TELETYPE</u>	<u>2</u>
<u>PAC COMPUTER/LOGGER INTERFACE</u>	<u>2</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>SCANIVALVES</u>	<u>6</u>
<u>1583 TYPEWRITERS</u>	<u>14</u>
<u>PANELLIT LOG TYPER</u>	<u>16</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

E006

a. Current Operating System MSOS 2 Latest Update 2/70 PSR No. ?

b. Local Modifications (Add additional description if desired, as appendix)

<u>ANALOG/DIGITAL INPUT</u>	<u>CHROMATOGRAPH INPUT</u>
<u>LOGGING</u>	<u>CONSOLE INPUT/OUTPUT</u>
<u>AVERAGING</u>	<u>COMPUTER PROCESS CONTROL</u>
<u>SCANNING</u>	

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>FORTRAN MASS STORAGE</u>	<u>NONE</u>
<u>FORTRAN DIRECT ADDRESS STORE</u>	<u>NONE</u>
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

JOB PROCESSOR LOCKOUT
BREAKPOINT INPUT

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: _____

(2) Compilers and System Routines: ALL S.E.

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	9:00	10:00	MONDAY
	10:00	11:00	MONDAY
Systems Work			not scheduled
Special Time Allotment			none
Production			constant
Debugs			not scheduled

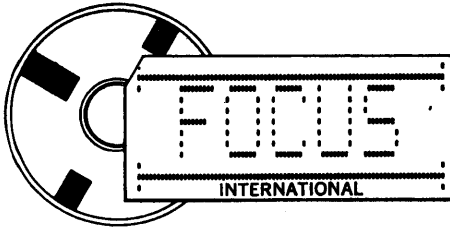
b. Job Scheduling: Describe your job scheduling algorithm
ON DEMAND VIA OPERATORS CONSOLE

c. Accounting Method:
 Charges based on: _____
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: 1752 DRUMS TO REPLACE THE 1751'S
 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: HEALTH COMPUTER SCIENCES UNIV. OF MINNESOTA
MINNEAPOLIS MINNESOTA
City Installation Name State
2. FOCUS CONTACT: LAWRENCE OZGA RESEARCH FELLOW
Name Title
3. DATE: 72/8/9 4. FOCUS INSTALLATION CODE: HCS
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: THE PRIMARY GOAL OF THE UNIVERSITY OF MINNESOTA HEALTH COMPUTER SCIENCES CENTER IS THE ADVANCEMENT OF RESEARCH AND TECHNOLOGY USING COMPUTERS IN MEDICINE AND HEALTH CARE DELIVERY.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

AUG 14 1972

a. CENTRAL SITE:

(1) Mainframe(s)

GROUP LIAISON

Model	Quantity	Core (K)
<u>3300</u>	<u>1</u>	<u>96K</u>
<u>PDP-12</u>	<u>1</u>	<u>16K (12 BIR)</u>

(2) Console(s)

(3) Tape Transport(s)

Model	Quantity	Model	Quantity
<u>3300</u>	<u>1</u>	<u>601 601</u>	<u>4</u>

(4) Disk(s)

(5) Card Reader(s)

Model	Quantity	Model	Quantity
<u>841</u>	<u>5</u>	<u>405</u>	<u>1</u>

(6) Line Printer(s)

(7) Data Cell(s)

Model	Quantity	Model	Quantity
<u>512</u>	<u>1</u>		

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>CALCOMP 565 PLOTTER</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>211 CRTS</u>	<u>6</u>
<u>TELETYPES - THRU PDP12 TO 3300</u>	<u>4</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>841 DISK</u>	<u>TWICE/WEEK</u>	<u>CHECKWORD FAILURES</u>
<u>601 TAPES</u>	<u>SEVERAL/WEEK</u>	<u>TAPE COMPATIBILITY</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>6 AM</u>	<u>9 AM</u>	<u>TUES, THUR</u>
Systems Work	<u>11:30 AM</u> <u>4:30 PM</u>	<u>12:30 PM</u> <u>6 PM</u>	<u>DAILY M-F</u> <u>DAILY M-F</u>
Special Time Allotment			
Production	<u>MIDNITE</u> <u>12:30 PM</u> <u>6 PM</u>	<u>11:30 AM</u> <u>4:30 PM</u> <u>MIDNITE</u>	<u>M-F</u> } <u>EXCEPT</u> <u>M-F</u> } <u>PREV.</u> <u>M-F</u> } <u>MAINT.</u>
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

JOBS OF LESS THAN 15 MINUTES OF
ON-OFF + PRINT TIME RUN FROM 8 AM - 4:30 PM
OTHER JOBS - REST OF TIME

c. Accounting Method:

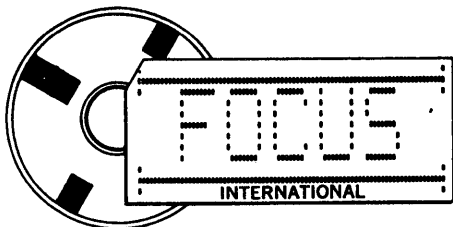
Charges based on: CPU + CHAN + OUTPUT BLOCK + ^{CONNECT TIME} CRTS, TELETYPE
Billing algorithm: (CPU + CHAN) * .90 / HR; (OUT BLKS) * .005; (CRT + TTY HRS) * 4.25

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: 2 841 DRIVES, 4 PDP 8E COMPUTERS
4 6045 TO REPLACE 601'S
b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: HAUBENREICH & MORRISSEY
Carle Place, New York
City State
2. FOCUS CONTACT: George R. Haubenreich Partner
Name Title
3. DATE: 72/ 8 / 21 4. FOCUS INSTALLATION CODE: H S H
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Surveying and sub-divisions

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER
 AUG 23 1972

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	GROUP LIAISON Core (K)
<u>301</u>	<u>1</u>	
<u>342</u>	<u>1</u>	
<u>360</u>	<u>1</u>	

(2) Console(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System SASSY Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	_____	_____	every 6 months
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	SASSY 100%
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

_____ own personal use, use on demand.

c. Accounting Method:

Charges based on: overall professional fees for surveying & subdivisions.
 Billing algorithm: _____

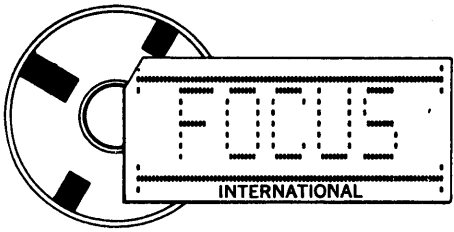
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: none at present, needed to supplement the present system.

b. Software: no need for additional software other than SASSY.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: HARVARD UNIVERSITY / MASSACHUSETTS GENERAL
Hospital Installation Name Boston City Mass. State
2. FOCUS CONTACT: ROBERT R. HOFFMAN Name FOCUS REPR. Title
3. DATE: 72 Yr. 8 Mo. 9 Day 4. FOCUS INSTALLATION CODE: HUCC
5. OBJECTIVES OF INSTALLATION: Hospital Clinical and Research
Applications utilizing Analog / Digital
Systems for improved patient care.
MEDLAB System.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

AUG 11 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Core (K)

Model	Quantity	Core (K)
<u>3170</u>	<u>1</u>	<u>48</u>

(2) Console(s)

(3) Tape Transport(s)

Model	Quantity	Model	Quantity
<u>3301</u>	<u>1</u>	<u>604</u>	<u>2</u>

(4) Disk(s)

(5) Card Reader(s)

Model	Quantity	Model	Quantity
<u>854</u>	<u>3</u>	<u>405</u>	<u>1</u>

(6) Line Printer(s)

(7) Data Cell(s)

Model	Quantity	Model	Quantity
<u>501</u>	<u>1</u>		

6. a. (8) QSE(s) (Quote Special Equipment)

Description	Quantity
BEEHIVE Medical Terminals	12
A/D CONTR - INTERFACE - Multipl.	1

(9) Other Devices

Description	Quantity
3310 FL. PT.	1
3311 PAGE FILE	1

b. REMOTE SITE(S):

(1) Computer(s)

Model	Quantity

(2) Other Remote Devices

Description	Quantity
Medical Analog / Digital Terminals	12

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

Device	No. of Occurrences (Or Rate of Occurrences)	Nature of Failure
A/D-Interface Equip.	15 / mo	VARIED - mostly noise
BB105 MEMORY	1 / mo	VARIED
3234 Disk Control	2 / mo	VARIED
BEEHIVE Terminals	10 / mo	VARIED

b. In your opinion, CDC's response to your hardware request(s) has been: (3170)

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

A/D Equip. & Terminals - Poor.

8. SOFTWARE SYSTEMS

a. Current Operating System MEDLAB Latest Update 1.2 PSR No. NA

b. Local Modifications (Add additional description if desired, as appendix)

Several modifications to the operating system required for this particular application.

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

BAP 32
FORTRAN 32 (DIGITEK)

e. Current Problems and Comments:

*Constant Fortran Compiler problems. —
No documentation.*

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: *Minimal — however lack of memory-protect under MEDLAB 1.2 causes occasional problems*
- (2) Compilers and System Routines: *which will be solved via MEDLAB 1.3 which our staff is currently installing and testing. Compiler/Assembler Problems — no cross reference directory for BAP 32 — no documentation for Fortran 32.*

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair Poor

c. System Stability:

Mean time between hardware/software failures 12 hrs.
Longest time period between hardware/software failures 24 hrs.

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	0645 0910	0815 1700	5 days/wk 1st. Saturday/each month
Systems Work			Sundays
Special Time Allotment			—
Production	24 hrs per day		5 days/week
Debugs	Applications debugging on line via a debug utility package.		

b. Job Scheduling: Describe your job scheduling algorithm

System on line to users 24 hrs/day - 5 day a week except during scheduled P.M. All other work done on weekends (stand-alone).

c. Accounting Method:

Charges based on: Currently no charges to users - financed
Billing algorithm: via N.I.H. Grant.

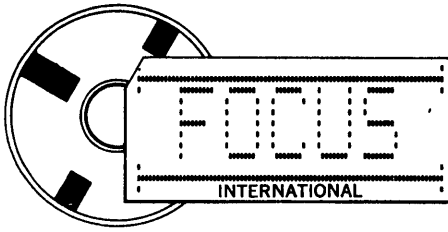
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

Unusual problems with CDC relating to hardware and software peculiar to MEDLAB.

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: Multiprogramming and added 16 K memory already installed. Planned expansion of station capacity.
- b. Software: User staff installation of MEDLAB Vers. 1.3. plus continued applications research and development.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

- U. S. Army Finance and Comptroller Information
1. **CONTRIBUTING ORGANIZATION:** Systems Command
Washington D.C.
City Installation Name
2. **FOCUS CONTACT:** E. P. Harper Chief, Systems Technology Office
Name Title
3. **DATE:** 72 / 08 / 08 **4. FOCUS INSTALLATION CODE:** IDSC
Yr. Mo. Day
5. **OBJECTIVES OF INSTALLATION:** Designs, develops, maintains and operates Automatic Data Processing in support of the Office of the Comptroller of the Army and Army Staff Agencies.

6. **HARDWARE (include vendor symbol on non-CDC Equipment):** OFFICE OF USER
AUG 11 1972

a. **CENTRAL SITE:**

(1) **Mainframe(s)**

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
3300	1	131K
3300	1	131K

GROUP LIAISON

(2) **Console(s)**

<u>Model</u>	<u>Quantity</u>
3301	2

(3) **Tape Transport(s)**

<u>Model</u>	<u>Quantity</u>
607	20

(4) **Disk(s)**

<u>Model</u>	<u>Quantity</u>
841-8	1
841-6	1
821-1	1

(5) **Card Reader(s)**

<u>Model</u>	<u>Quantity</u>
405	2

(6) **Line Printer(s)**

<u>Model</u>	<u>Quantity</u>
501	4

(7) **Data Cell(s)**

<u>Model</u>	<u>Quantity</u>

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
3316	1
304	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
200 User Terminal with 222-2, 224-2	1
Model 33 TTY	1

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
841 Disk Drives	2 Per Month	Unmatched label file entries
405 Card Reader	3 Per Month	Premature end of file on input
405 Card Reader	1 Per Day	Job not scheduled after deck is fed through the reader (1 ready msg. typed)

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor
 Very good on other hardware problems

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER Latest Update 3.2 PSR No. 227+

b. Local Modifications (Add additional description if desired, as appendix)

<u>Standardization of Messages</u>	<u>Sorts (Many modifications)</u>
<u>*DEF (Label Processing)</u>	<u>Machine Accounting</u>
<u>COBOL Label Handling</u>	<u>Utilities</u>
<u>Mass Storage Security (To prevent accessing residual data from released files)</u>	

c. OSS(s) (Quote Special Software)

- (1) None
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>COBOL</u>	<u>Local/Selected PSR's</u>		
<u>USASI COBOL</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>SORTS</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>FORTRANS</u>	<u>"</u>	<u>"</u>	<u>"</u>
<u>RESPOND</u>	<u>"</u>	<u>"</u>	<u>"</u>
_____	_____	_____	_____
_____	_____	_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: Mass Storage Label File (Duplicate entries), EXEC 110 (Lost interrupt)'S

(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor
Solution to the problem X Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0600	1000	Mon, Wed. (System #1)
	1800	2200	Tues, Thurs, (System #2)
Systems Work			as required
Special Time Allotment			
Production			
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm
All jobs are separated into classes based on facilities used.

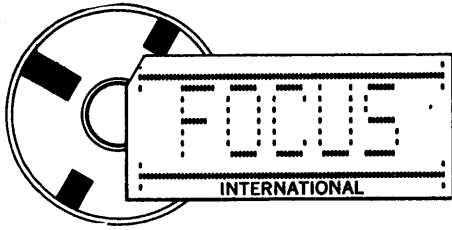
c. Accounting Method:
 Charges based on: Charges are not made for the
 Billing algorithm: work which is processed.

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: BOOTH NEWSPAPERS INC. COMPUTER-RESEARCH DIV
Installation Name
ANN ARBOR MICHIGAN 48104
City State
2. FOCUS CONTACT: EDWARD G. LUCAS PROGRAMMING SUPERVISOR
Name Title
3. DATE: 72108 109 4. FOCUS INSTALLATION CODE: FLIN
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: CORPORATE COMPUTING FACILITY FOR ON-LINE PROCESSING OF PRODUCTION AND BUSINESS DATA SUBMITTED BY EIGHT REMOTE NEWSPAPERS

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

AUG 14 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3300</u>	<u>2</u>	<u>96K (SHARED)</u>
<u>CSP 2100</u>	<u>3</u>	<u>4 TO 12K EACH</u>

(2) Console(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>607</u>	<u>5</u>
<u>601</u>	<u>3</u>

(4) Disk(s)

Model	Quantity
<u>841</u>	<u>9</u>
<u>7301-DDC</u>	<u>1</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>
<u>6002 (MOLTRAK)</u>	<u>1</u>

(6) Line Printer(s)

Model	Quantity
<u>505</u>	<u>1</u>
<u>4320-C (MOLTRAK)</u>	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

Description	Quantity
COMMUNICATIONS UNIT (SUPPORTS UP TO 48 2400 BAUD LINES)	1

(9) Other Devices

Description	Quantity
415 CARD PUNCH	1
210 CRT UNITS	4
SPECIAL INTERFACE THAT CONNECTS CIP 2100 TO 3306 DATA CHANNEL	1

b. REMOTE SITE(S):

(1) Computer(s)

Model	Quantity
CIP 2100 4 - 12 K EACH	16 *

(2) Other Remote Devices

Description	Quantity
4320-C (MOHAWK 300 LPM PRINTER)	8 *
7301- (DDC 1M BYTE DISK)	8 *
ULTRONICS MULTIPLEXING UNIT	16

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

Device	No. of Occurrences (Or Rate of Occurrences)	Nature of Failure

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

* IN PROCESS OF BEING INSTALLED

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER 3.0 Latest Update PSR No.

b. Local Modifications (Add additional description if desired, as appendix)

- 1) REALTIME EXEC AND TASKS
 - 2) MULTI-PROCESSING SOFTWARE
- _____
- _____

c. QSS(s) (Quote Special Software)

- (1) NONE
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

WE DO NOT AGGRESSIVELY
INSTALL PSR CHANGES

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures TWO DAYS

Longest time period between hardware/software failures TWO WEEKS

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>0500</u>	<u>0600</u>	<u>TUES - FRI</u>
	<u>0400</u>	<u>0600</u>	<u>MON</u>
Systems Work	<u>1700</u>	<u>2000</u>	<u>MON - THURS</u>
			<u>SUN (VIRTUALLY ALL DAY)</u>
Special Time Allotment			
Production	<u>0600</u>	<u>1700</u>	<u>MON - THURS</u>
	<u>2000</u>	<u>2400</u>	<u>" "</u>
	<u>0600</u>	<u>2400</u>	<u>FRI - SAT</u>
Debugs	<u>(SAME AS SYSTEMS WORK)</u>		

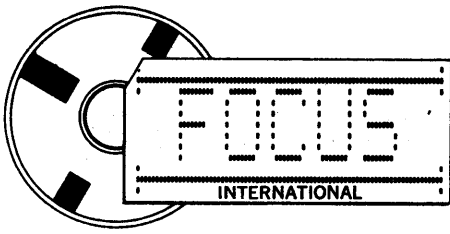
b. Job Scheduling: Describe your job scheduling algorithm
OUR JOBS ARE NOT IN THE CONVENTIONAL MASTER SENSE
WE IMPOSE AN OPERATING ENVIRONMENT ON MASTER WHICH
USES MULTI-TASKING BUT ONLY ONE JOB, ALTHOUGH WE
PROCESS MULTIPLE MESSAGES FROM OUR COMMUNICATIONS
NETWORK

c. Accounting Method:
 Charges based on:
 Billing algorithm:

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: CURRENTLY INSTALLING NEW COMMUNICATIONS SUB-SYSTEM
WITH REMOTE PRINT CAPABILITY (CIP 2100'S, MOHAWK LINE PRINTER)
 b. Software: WE MAY CHANGE OUR ENVIRONMENT TO THE MASTER JOB
CONCEPT, CONSEQUENTLY, MULTI-JOB ALTHOUGH THE JOBS
WOULD BE SUBMITTED FROM OUR COMMUNICATIONS SUB-SYSTEM

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: INTERSTATE POWER Co.
Dubuque Iowa
City State
2. FOCUS CONTACT: MICHAEL R. CHASE COMPUTER ENGINEER
Name Title
3. DATE: 721 819 4. FOCUS INSTALLATION CODE: IPC
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: ELECTRIC UTILITY SUPERVISORY CONTROL

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

a. CENTRAL SITE:

AUG 11 1972

(1) Mainframe(s)

GROUP LIAISON
Core (K)

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
<u>1704</u>	<u>1</u>	<u>28K</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

(3) Tape Transport(s)

<u>Model</u>	<u>Quantity</u>	<u>Model</u>	<u>Quantity</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(4) Disk(s)

(5) Card Reader(s)

<u>Model</u>	<u>Quantity</u>	<u>Model</u>	<u>Quantity</u>
<u>853</u>	<u>1</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(6) Line Printer(s)

(7) Data Cell(s)

<u>Model</u>	<u>Quantity</u>	<u>Model</u>	<u>Quantity</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

6. a. (8) OSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
CDC Supy II Supervisory Remotes	10
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
853 Disk + 1738 Controlled	4 Failures/yr	Head Crash, Failure of Logic Components
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System 2.X Latest Update SEPT. '70 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

POWER FAIL RESTART
DISK DOWN MODIFICATIONS

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

FTN 1.1A
MACRO 2.0
COSY 1.0

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: NONE
- (2) Compilers and System Routines: COSY 1.0 drops or adds
FRAMES WHEN USING PAPER TAPE AS OUTPUT

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 1 month
Longest time period between hardware/software failures 4 months

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

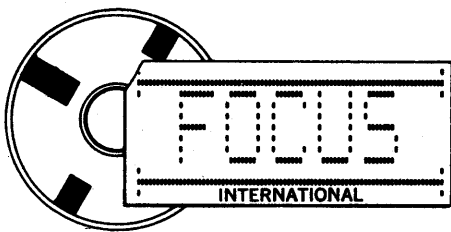
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: Additional Supervisory Remote Equipment on order

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: KAZMAR CONSULTANTS LTD
SCARBOROUGH ONT CANADA
City Installation Name State

2. FOCUS CONTACT: M. T. BRAAE
Name

3. DATE: 7/21/81 4. FOCUS INSTALLATION CODE: KCL
Yr. Mo. Day Title

5. OBJECTIVES OF INSTALLATION: STRUCTURAL ENGINEERING DESIGN

OFFICE OF USER

AUG 14 1972

GROUP LIAISON

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
RPC 4000	1	8

(2) Console(s)

Model	Quantity

(3) Tape Transport(s)

Model	Quantity

(4) Disk(s)

Model	Quantity

(5) Card Reader(s)

Model	Quantity

(6) Line Printer(s)

Model	Quantity

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System ACT 4 Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____

- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

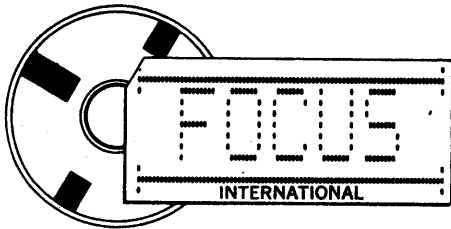
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Korea Institute of Science & Technology
Installation Name
P.O. Box 131, Cheong Ryang, Seoul Korea
City State
2. FOCUS CONTACT: Dr. Ki Soo Sung Manager of EDP Dept.
Name Title
3. DATE: 69 / 9 / 15 4. FOCUS INSTALLATION CODE: ~~FOCUS~~ KIST
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Development of Computerizing to both
Scientific and Business. Service Center for more than 100 customers
and KIST. Supplying trained Computer Specialists to Korea EDP field.

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment): AUG 22 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3300</u>	<u>1</u>	<u>98K Words</u>

(2) Console(s)

Model	Quantity
<u>3301</u>	<u>1</u>

(3) Tape Transport(s)

Model	Quantity
<u>604</u>	<u>6</u>
<u>608</u>	<u>2</u>

(4) Disk(s)

Model	Quantity
<u>841</u>	<u>4</u>
<u>854</u>	<u>2</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>

(6) Line Printer(s)

Model	Quantity
<u>512</u>	<u>2</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
936 OCR	1
1700 for OCR System	1
415	1
565 Plotter	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
200 UT	2
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
3311(Multi)	4-6 times year	System Halt Eo4
3312(BDP)	2-4 times year	Deep-End Illegal Eo4
415	2-5 Month	Ready Drop
(A time takes from 3 day to 10 day)		

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System V3.0 + 3.1 Latest Update 72.7.10 PSR No. 235

b. Local Modifications (Add additional description if desired, as appendix)

Korean Character Set Program
Line Printer Image

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

COMPASS	V 2.0	_____
MS FORTRAN	V 3.2	_____
ANSI FORTRAN	V 2.0	_____
ALGOL	V 1.2	_____
MS COBOL	V 2.4	_____
ANSI COBOL	V 2.0	_____
MS SORT	V 2.2	_____
PERT	V 2.0	_____

e. Current Problems and Comments:

- 1. Destruction of System in Respond Job.
- 2. " " During Suspension.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures 7 days
Longest time period between hardware/software failures 14 days

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0700	0900	5
Systems Work			As Required
Special Time Allotment			
Production	0900 0001	2400 0700	7 7
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm
 0900-2100 FIFO
 2100- Next 0700 Block Time Allocation to Production Run.

c. Accounting Method:
 Charges based on: KIST Computer User Rate
 Billing algorithm:

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: CYBER 72-14 Scheduled to Install in November 72.
 b. Software: Scope 3.4

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

6. a. (8) QSE(s) (Quote Special Equipment)

Description	Quantity
<u>MULTIPLER REFERENCE SOURCES</u> <u>(4.5 - 45 - 450 - 4500 mV)</u>	<u>1</u>

(9) Other Devices

Description	Quantity
<u>1500 EQUIPMENT</u> <u>(1573 - 1577 - 1534² - 1544 -</u> <u>1547 - 1553 - 1558 - 1583)</u>	

b. REMOTE SITE(S):

(1) Computer(s)

Model	Quantity
<u>1584 SELECTRIC</u>	<u>5</u>
<u>KSLA CONSOLE I</u>	<u>1</u>
<u>KSLA CONSOLE II / HONEYWELL 316</u>	<u>1</u>

(2) Other Remote Devices

Description	Quantity

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

Device	No. of Occurrences (Or Rate of Occurrences)	Nature of Failure
<u>430</u>	<u>7 times a year</u>	<u>timing, card jam</u>
<u>1751 E</u>	<u>3 times a year</u>	<u>during external power failures</u> <u>errors in contents</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 3.0 Latest Update _____ PSR No. 54

b. Local Modifications (Add additional description if desired, as appendix)

SHELL REFERENCE SYSTEM II

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

MACRO ASSEMBLER

FORTRAN 2.0A

e. Current Problems and Comments:

NON STANDARD SOFTWARE FROM LA JOLLA
(1500 DRIVERS, RTMS-17)

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures 20yh (not counting autom. restarts)

Longest time period between hardware/software failures 10 days

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>10:30</u>	<u>11:30</u>	<u>THURSDAY</u>
Systems Work			
Special Time Allotment			
Production	<u>0:00</u>	<u>24:00</u>	<u>SEVEN DAYS A WEEK</u>
Debugs	<u>8:30</u>	<u>17:00</u>	<u>MONDAY-FRIDAY</u>

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: OPERATIONAL COSTS
 Billing algorithm: DEPARTMENT OVERHEAD

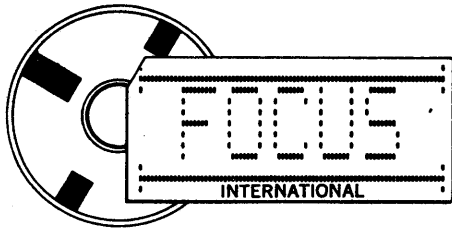
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

MAINTENANCE OF CDC PURCHASED/LEASED NON-CDC EQUIPMENT, SUCH AS TELETYPE AND IBM-SELECTRICS, IS POOR.

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: -REPLACING TAPE BY SECOND DISK
-EXTENSION OF 1000-EQUIPMENT
 b. Software: OPERATING SYSTEM } BOTH FROM
+ OPERATIONS } DRUM AND DISK

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: University of Utah, Department of Biophysics

Salt Lake City Utah
City State

2. FOCUS CONTACT: J.T. Roberts Sr. Systems Analyst
Name Title

3. DATE: 72/ 08 / 07 4. FOCUS INSTALLATION CODE: LDSH
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: Biophysics and Bioengineering, research, teaching, and clinical services.

OFFICE OF USER

AUG 11 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3300</u>	<u>1</u>	<u>32K</u>
<u>3200</u>	<u>1</u>	<u>32K</u>

(2) Console(s)

Model	Quantity
<u>3300</u>	<u>1</u>
<u>3200</u>	<u>1</u>

(3) Tape Transport(s)

Model	Quantity
<u>3228/607</u>	<u>3</u>

(4) Disk(s)

Model	Quantity
<u>3234/854</u>	<u>6</u>

(5) Card Reader(s)

Model	Quantity
<u>3248/405</u>	<u>1</u>

(6) Line Printer(s)

Model	Quantity
<u>1612</u>	<u>1</u>

(7) Data Cell(s)

Model	Quantity
-------	----------

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>10 KHz Real-Time Clock</u>	<u>2</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>3316 Communications Controller</u>	<u>8TU's</u>
<u>REDCOR A/D and D/A Controllers</u>	<u>2</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>PDP-8S</u>	<u>2</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>Textronic based terminals</u>	<u>45</u>
<u>Infoton terminals</u>	<u>8</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>1612 Printer</u>	<u>1-2 / day</u>	<u>Form positioning runaway</u>
<u>854 Disk</u>	<u>1-3/Month</u>	<u>Various seek problems seem to predominate.</u>
<u>3316</u>	<u>10-20/day</u>	<u>See addendum.</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MEDLAB Latest Update 5.1 PSR No. N.A.

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) None
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>FORTRAN/MEDLAB</u>	<u>N.A.</u>
<u>BAP/MEDLAB</u>	<u>N.A.</u>
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 4.1 Hrs. (24 hr. day, 7 day week)
Longest time period between hardware/software failures 57 hrs. (24 hr. day, 7 day week)

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>4 pm</u>	<u>12 am</u>	<u>Sun</u>
Systems Work	<u>11 pm</u>	<u>6 am</u>	<u>On demand</u>
Special Time Allotment			<u>None</u>
Production	<u>12 am</u>	<u>12 am</u>	<u>Daily, except for PM and systems.</u>
Debugs			<u>On-line</u>

b. Job Scheduling: Describe your job scheduling algorithm
FCFS, round robin. Real-time, time shared with two priority interrupt lockout.

c. Accounting Method:
 Charges based on: Time and materials
 Billing algorithm: Estimate

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

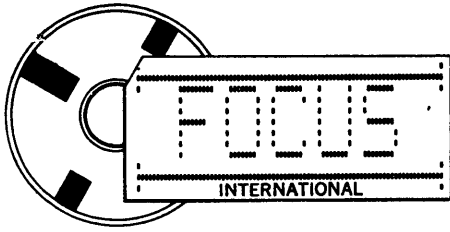
12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: 3170 (64K) to replace 3200. Expanded 3316 capabilities.
 b. Software: Extensive revision of MEDLAB system and support software.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

ADDENDUM: 3316 Problems.

From installation to approximately 3/72, the 3316 communications controller caused serious main frame problems. Basically the faults were with respect to noise on the memory access busses causing problems when main control referenced memory. Problems resolved by some very capable work by our C.E. and regional Tech. Support. The CEN diagnostic had too many bugs and no (apparent) design criteria to help isolate the problems incurred in memory accessing conflicts.

Currently the 3316 fails about once every third or fourth day with an addressing error.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. **CONTRIBUTING ORGANIZATION:** Western Uranium Project, Lucius Pitkin, Inc.
P. O. Box 1889 Grand Junction Colorado 81501
City State
2. **FOCUS CONTACT:** David E. Primm Director, Data Processing Div.
Name Title
3. **DATE:** 72 / 8 / 7 4. **FOCUS INSTALLATION CODE:** LPI
Yr. Mo. Day
5. **OBJECTIVES OF INSTALLATION:** CONTRACTOR TO AEC

OFFICE OF USER

AUG 9 1972

GROUP LIAISON

6. **HARDWARE (include vendor symbol on non-CDC Equipment):**

a. **CENTRAL SITE:**

(1) **Mainframe(s)**

Model	Quantity	Core (K)
3100	1	32

(2) **Console(s)**

Model	Quantity
3192	1

(3) **Tape Transport(s)**

Model	Quantity
604	4

(4) **Disk(s)**

Model	Quantity
854	3

(5) **Card Reader(s)**

Model	Quantity
405	1

(6) **Line Printer(s)**

Model	Quantity
501	1

(7) **Data Cell(s)**

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415 Card Punch	1
3691 Paper Tape Reader/Punch	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
405 Card Reader	Once Per Day	Drops Ready

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good X Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Latest Update V4.2 PSR No. 228+

b. Local Modifications (Add additional description if desired, as appendix)

Job Accounting

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

FORTRAN	228+
COBOL	228+
COMPASS	228+
FORTTRACE	
SHORT	
LISA	228+
REGINA	
GPSS	

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good ____ Fair X Poor

c. System Stability:

Mean time between hardware/software failures 8 hours
Longest time period between hardware/software failures 40 hours

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>0700</u>	<u>0800</u>	<u>Monday thru Friday</u>
* Systems Work			
* Special Time Allotment			
* Production			
* Debugs			

* These four categories occur between the hours of 0800 and 1630 on Monday thru Friday. No special time is scheduled for any category.

b. Job Scheduling: Describe your job scheduling algorithm
First in, first out except for priority jobs authorized by the Director.

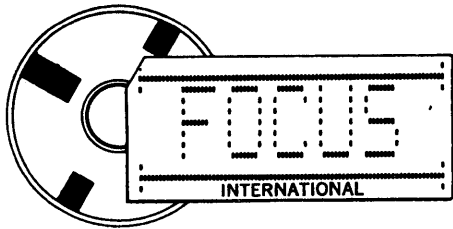
c. Accounting Method: Nonbillable- The computer is considered as an overhead item
 Charges based on: for all users.
 Billing algorithm: This site is solely supported by the Federal Government and commercial sales are not authorized.

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: OFF LINE PRINT SYSTEM. ADD 1 604 AND 1 854.

 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Lamar University
Beaumont Texas 77710
City State
2. FOCUS CONTACT: Guy A. Blount, Jr
Name Title
3. DATE: 7/20/75 4. FOCUS INSTALLATION CODE: LUCC
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Provide computer services to the administration, faculty and students.

OFFICE OF USER

AUG 30 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3300</u>	<u>1</u>	<u>65</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
<u>3301</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>604</u>	<u>2</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
<u>854</u>	<u>4</u>
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>505</u>	<u>1</u>
<u>501</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
<u>—</u>	<u>—</u>
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>None</u>	

(9) Other Devices

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>None</u>	

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion CDC's response to your hardware request(s) has been:

Excellent Very Good Good Fair Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER 3.2 Latest Update PSR No. 2647

b. Local Modifications (Add additional description if desired, as appendix)

Account no. checking.
Limit time and output of student jobs.
Suppress MAPS (need \$MAP=Y to get cue.)

c. QSS(s) (Quote Special Software)

- (1) None
- (2)
- (3)
- (4)

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>UCBL</u>	}	<u>Cup 264</u>
<u>CBL</u>		
<u>FTN</u>		
<u>FTNU</u>		
<u>CMP</u>		

e. Current Problems and Comments:

Some problems with *DEF
Some problems with RLDR

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System:
- (2) Compilers and System Routines:

b. In your opinion, CDC's response to your software request(s) has been:

 Excellent Very Good ✓ Good Fair Poor

c. System Stability:

Mean time between hardware/software failures about 1 per 10 hour day
Longest time period between hardware/software failures about 5 10hour days

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>0500</u> <u>0500</u>	<u>0900</u> <u>0900</u>	<u>Tuesday</u> <u>Wednesday</u>
Systems Work	<u>2000</u>	<u>0800</u>	<u>As required</u>
Special Time Allotment			
Production	<u>0800</u>	<u>2000</u>	<u>Monday - Friday</u>
Debugs	<u>0800</u>	<u>2000</u>	<u>Monday - Friday</u>

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

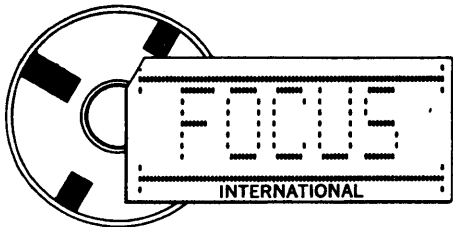
Charges based on: Channel, CPU, Core, PEO
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: CRT's
Disk File
 b. Software: Real-Time, on-line

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Loyola University
Installation Name
New Orleans, Louisiana
City State
2. FOCUS CONTACT: Mr. K. G. Beasley Director
Name Title
3. DATE: 72/08/08 4. FOCUS INSTALLATION CODE: LUNO
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Educational / Administrative

OFFICE OF USER

AUG 14 1972

GROUP LIAISON

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
3300	1	32

(2) Console(s)

Model	Quantity
3304	1

(3) Tape Transport(s)

Model	Quantity
608	3

(4) Disk(s)

Model	Quantity
854	2

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
501	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>200 UT</u>	<u>1</u>
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>608</u>	<u>High-6-10 Weekly</u>	<u>Parity Error-Compatibility</u>
<u>3302</u>	<u>1 - 10 Monthly</u>	<u>Memory Parity</u>
<u>501</u>	<u>15 - Semi-Yearly</u>	<u>Character Drop</u>
<u>405</u>	<u>19 - Yearly</u>	<u>Jam & mis-read</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Latest Update Current PSR No. Current

b. Local Modifications (Add additional description if desired, as appendix)

Accounting System - MSOS

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

Better than last year

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 9.6 Days
Longest time period between hardware/software failures 21 Days

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	<u>7 a.m.</u>	<u>10 a.m.</u>	<u>Monday and Thursdays</u>
	_____	_____	_____
	_____	_____	_____
Systems Work	<u>As Needed - After Production</u>		
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	<u>None</u>	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	<u>Daily as Required</u>		
	_____	_____	_____
	_____	_____	_____
Debugs	<u>As Needed</u>	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

1. Special Administrative
2. Grants / Research
3. Student
4. Other Administrative

c. Accounting Method:

Charges based on: I/O & CPU
 Billing algorithm: Per Hour

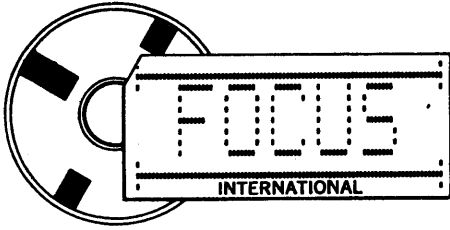
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware:** _____

- b. Software:** _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: McDonnell Douglas Automation Company
St. Louis Missouri
City State
2. FOCUS CONTACT: Catherine R. Mayo Systems Programming
Name Title
3. DATE: 74 08 107 4. FOCUS INSTALLATION CODE: MAC
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Service bureau, aerospace

OFFICE OF USER

AUG 10 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

GROUP LIAISON

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>8092</u>		

(2) Console(s)

Model	Quantity
<u>Teletype</u>	<u>1</u>

(3) Tape Transport(s)

Model	Quantity
<u>609</u>	<u>1</u>

(4) Disk(s)

Model	Quantity

(5) Card Reader(s)

Model	Quantity

(6) Line Printer(s)

Model	Quantity

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<i>915 optical Page Reader</i>	<i>1</i>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System none Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Grasp 2.4

Updated through PSR Summary or Local Modifications:

Jan 72

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems: none

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures ?
Longest time period between hardware/software failures ?

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>8:00 A.M.</u>	<u>10:00 A.M.</u>	<u>Mon + Thurs</u>
Systems Work			<u>on request</u>
Special Time Allotment			
Production	<u>3 shifts</u>		<u>avg 90 hrs/week</u>
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm
department to handle scheduling

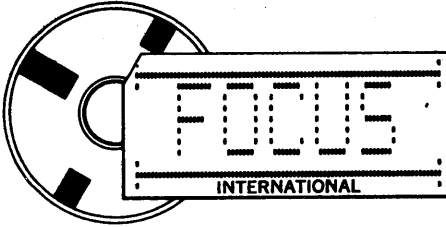
c. Accounting Method:
 Charges based on: no. of lines scanned
 Billing algorithm: undisclosed

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: _____

 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: MILGO ELECTRONICS CORP
Installation Name
2620 NW 36TH AVE MIAMI FLORIDA
City State
2. FOCUS CONTACT: E. D. SMITH SAS SYSTEMS ANALYST
Name Title
3. DATE: 72 / 8 / 9 4. FOCUS INSTALLATION CODE: MEC
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION:
BUSINESS / SCIENTIFIC DATA PROTECTORS
ON LINE MANAGEMENT INFORMATION SYSTEMS

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

a. CENTRAL SITE:

AUG 11 1972

(1) Mainframe(s)

Model	Quantity	Core
<u>3215</u>	<u>1</u>	<u>GROUP LIAISON</u> <u>32K WORDS</u>

(2) Console(s)

Model	Quantity
<u>3201</u>	<u>1</u>
<u>3192</u>	<u>1</u>

(3) Tape Transport(s)

Model	Quantity
<u>608</u>	<u>2</u>

(4) Disk(s)

Model	Quantity
<u>854</u>	<u>8</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>

(6) Line Printer(s)

Model	Quantity
<u>501</u>	<u>1</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
3290 C DISPLAY CONTROLLER	1
DD 211 DISPLAY TERMINAL	8
415 CARD PUNCH	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Latest Update 4.2 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) PROFITS
- (2) CASH
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	6:00 AM	8:00 AM	DAILY
Systems Work			
Special Time Allotment			
Production	8:00 AM	5:00 PM	DAILY
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____
 Billing algorithm: _____

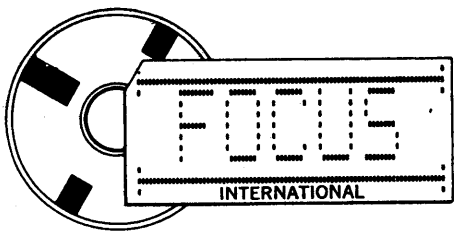
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: ORDER Entry SYSTEM (ON LINE)

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Miller Electric Mfg. Co.
Installation Name
Appleton WISCONSIN
City State
2. FOCUS CONTACT: MYRON B Dahle D.P. Mgr.
Name Title
3. DATE: 721 81 7 4. FOCUS INSTALLATION CODE: MEMC
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Manufacturing

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
<u>3100</u>	<u>1</u>	<u>32</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

<u>Model</u>	<u>Quantity</u>
<u>3101</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

<u>Model</u>	<u>Quantity</u>
<u>601</u>	<u>2</u>
_____	_____
_____	_____

(4) Disk(s)

<u>Model</u>	<u>Quantity</u>
<u>854</u>	<u>4</u>
_____	_____
_____	_____

(5) Card Reader(s)

<u>Model</u>	<u>Quantity</u>
<u>405</u>	<u>1</u>
_____	_____
_____	_____

(6) Line Printer(s)

<u>Model</u>	<u>Quantity</u>
<u>501</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
3691	1
3290	1
211	7

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
854	_____	Read or write failures
3113	_____	Memory parity error
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 4.2 Latest Update 4.2 PSR No. 237

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>COBOL</u>	<u>237</u>
<u>FORTRAM</u>	<u>237</u>
<u>MSSORT</u>	<u>237</u>
<u>OCS</u>	
_____	_____
_____	_____

e. Current Problems and Comments:

at times, operation of OCS causes various errors in production COBOL programs running in batch mode.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: Parity error handling during MSSORT.

b. In your opinion, CDC's response to your software request(s) has been:

Excellent _____ Very Good _____ Good _____ Fair _____ Poor _____

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	4:00 PM	8:00 PM	Monday
Systems Work			
Special Time Allotment			
Production	9:30 AM 8:00 PM	4:00 PM 1:30 AM	Monday "
Debugs	9-30 AM	1:30 AM	Tue - Fri

b. Job Scheduling: Describe your job scheduling algorithm

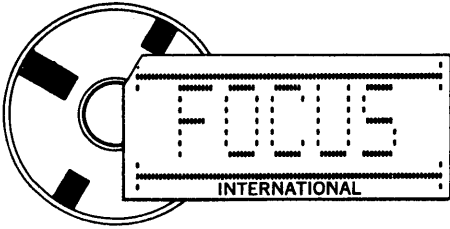
Written log book

c. Accounting Method:
 Charges based on: *None*
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: *More 211 CRTs will be added.*
 b. Software: *We are presently installing MSOS 4.2 Release 254*

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: West Bank Computer Center

Mpls. Minnesota
City State

2. FOCUS CONTACT: Dr. Thomas Hoffman Director
Name Title

3. DATE: 72/ 9 / 5 4. FOCUS INSTALLATION CODE: MINN
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: To provide remote access to a CDC 6600 computer and to provide local batch capabilities to the university community. On line interactive capabilities are also supported and encouraged.

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

SEP 11 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
3210	1	32K

(2) Console(s)

Model	Quantity

(3) Tape Transport(s)

Model	Quantity
601	2

(4) Disk(s)

Model	Quantity
854	4

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
501	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
CDC 211 Display/Entry Stations and Controller	10

(9) Other Devices

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
501	no statistics	Column's fail
854	no statistics	fails to seek address or incompatibility

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent Very Good Good Fair Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Latest Update 4.2 PSR No. 254

b. Local Modifications (Add additional description if desired, as appendix)

- Import - remote 6600 communication software
- BKI, BKQ - queued (spooled) input and output on local jobs
- R2CDRV, STR3 modifications to allow 3200 batch access to 6600 directly
- CRT DRIVER - System driver for 211 CRT's
- MISC - changes to Prelib, removal of IMTR
- ACCOUNTING - Preload changes

c. QSS(s) (Quote Special Software) MULT ED - modification to multiple editions to allow more than one system to use the same library

- (1) GRDS - unsegments 854 disc packs under MSOS
- (2) CRTFTN - precompiler for easing programming effort on 211 CRT6
- (3) BASIC - UMD developed basic compiler is operational on our system
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>MS FORTRAN 4.2</u>	<u>PSR 254</u>
<u>MS COBOL 4.2</u>	<u>PSR 254</u>
<u>ALGOL 4.2</u>	<u>PSR 254</u>
<u>MSUTIL</u>	<u>PSR 254</u>
<u>UTILITY</u>	<u>PSR 254</u>
<u>MSSORT 4.2</u>	<u>PSR 254</u>
<u>BASIC (UMD)</u>	<u>PSR 254</u>

e. Current Problems and Comments:

Software in general is difficult to update due to the extensive nature of our modifications.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: no major problems, cryptic diagnostics
- (2) Compilers and System Routines: cryptic diagnostics

b. In your opinion, CDC's response to your software request(s) has been:

Excellent Very Good Good Fair Poor

c. System Stability:

Mean time between hardware/software failures no accurate statistics
 Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>6:00</u>	<u>9:00 AM</u>	<u>Wed, Fri.</u>
Systems Work	<u>6:00</u>	<u>9:00 AM</u>	<u>Tues, Thurs</u>
Special Time Allotment	<u>midnite</u>	<u>8:00 AM</u>	<u>Mon, Sat</u>
	<u>midnite</u>	<u>6:00 AM</u>	<u>Tues, Wed, Thurs, Fri</u>
	<u>2:00 PM</u>	<u>midnite</u>	<u>Sat</u>
	<u>ALL DAY</u>		<u>Sun</u>
Production	<u>8:00 AM</u>	<u>midnite</u>	<u>Mon</u>
	<u>9:00 AM</u>	<u>midnite</u>	<u>Tues, Wed, Thurs, Fri</u>
	<u>8:00 AM</u>	<u>2:00 PM</u>	<u>Sat</u>
Debugs	<u>(During STA)</u>		

b. Job Scheduling: Describe your job scheduling algorithm

First come first serve on 3200.

c. Accounting Method:

Charges based on: i) time, CRT time, and pages
 Billing algorithm: ii) time X rate = charge, pages X rate = charge

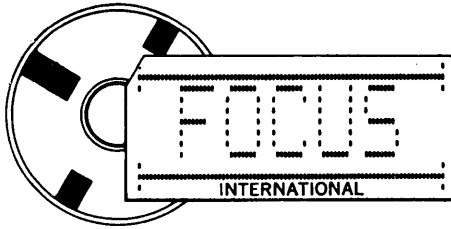
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
None

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: no immediate plans

b. Software: expanded CRT oriented operating system addition (semi-time shared),
 more CRT utility routines, and documentation.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Michigan State University
Installation Name
East Lansing Michigan
City State
2. FOCUS CONTACT: Richard R. Moore Supervisor Systems Programming
Name Title
3. DATE: 72/ 8 / 7 4. FOCUS INSTALLATION CODE: MSU
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Support the research computing and instructional computing needs of the university.

OFFICE OF USER
 AUG 11 1972
 GROUP LIAISON

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3600</u>	<u>1</u>	<u>64K</u>
<u>6500</u>	<u>1</u>	<u>64K</u>
<u>PDP-11/20/11/15</u>	<u>1 ; 1</u>	<u>16K; 4K</u>

(2) Console(s)

Model	Quantity
<u>3601</u>	<u>1</u>
<u>6612</u>	<u>1</u>

(3) Tape Transport(s)

Model	Quantity
<u>606</u>	<u>10</u>
<u>607</u>	<u>4</u>

(4) Disk(s)

Model	Quantity
<u>6638</u>	<u>1</u>
<u>821-2</u>	<u>1</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>3</u>

(6) Line Printer(s)

Model	Quantity
<u>501</u>	<u>2</u>
<u>512</u>	<u>2</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
Chronolog calander clock (6500)	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
200 UT (for 6500)	4

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor
 not observed

8. SOFTWARE SYSTEMS 3600

a. Current Operating System Drum SCOPE Latest Update Modified PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>FOR</u>	_____
<u>FORTRAN</u>	_____
<u>COMPASS</u>	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor X not observed

c. System Stability:

Mean time between hardware/software failures 8 hours (software crash)
Longest time period between hardware/software failures 24 hours (software crash)

10. OPERATIONS 3600

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0800 0600	0900 1000	T W T F M
Systems Work			
Special Time Allotment			
Production	0900 0001 1000	2400 0600 2400	T W T F M T W T F Monday
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

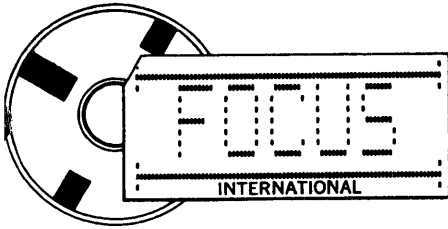
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: None

b. Software: None

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Motor Vehicle Administration
Installation Name
Glen Burnie, Maryland
City State

2. FOCUS CONTACT: Jack Burke Data Processing Manager
Name Title

3. DATE: 72/ 8 / 8 4. FOCUS INSTALLATION CODE: MVAM
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: Registration of Vehicles; License and ID Issuance; Driver Records; Communications State-Wide with Motor Vehicle Branches and State Police Computer Center.

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

AUG 14 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
<u>3300</u>	<u>2</u>	<u>196</u>

(2) Console(s)

<u>Model</u>	<u>Quantity</u>
<u>3301</u>	<u>2</u>

(3) Tape Transport(s)

<u>Model</u>	<u>Quantity</u>
<u>607</u>	<u>6</u>

(4) Disk(s)

<u>Model</u>	<u>Quantity</u>
<u>821-2</u>	<u>3</u>
<u>841-4</u>	

(5) Card Reader(s)

<u>Model</u>	<u>Quantity</u>
<u>405</u>	<u>1</u>

(6) Line Printer(s)

<u>Model</u>	<u>Quantity</u>
<u>512</u>	<u>2</u>

(7) Data Cell(s)

<u>Model</u>	<u>Quantity</u>

8. SOFTWARE SYSTEMS

a. Current Operating System Master 3.0 Latest Update CUP 211 PSR No. 162 +

b. Local Modifications (Add additional description if desired, as appendix)

DIMP - Demand input message processor -written by CDC - Comm
Interface to Master and User Programs supporting
Bunker-Ramo Terminals

SFL - Shared File Logic - Two Computers sharing use of 821 Files

c. OSS(s) (Quote Special Software)

- (1) Speeded up LISA -
- (2) Forced Buffer Logic
- (3) _____
- (4) _____

d. Compiler and Library Routines:

ANSI COBOL

Compass

COSY

LISA

Updated through PSR Summary or Local Modifications:

PSR

PSR

PSR

PSR & LOCAL MOD.

e. Current Problems and Comments:

File pointers mixed up occassionally due to speeded up LISA
writing & linking blocks incorrectly. Problem under full
investigation

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: Activity bit on comm system/Master non esixtent
Channel Halt-Batch Master
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>6 AM</u>	<u>10 AM</u>	<u>Wed & Friday</u>
One computer at a time	<u>6 AM</u>	<u>8 AM</u>	<u>Mon</u>
	<u>20 hrs</u>	<u>per month</u>	<u>1-821 - usually on weekend</u>
Systems Work	_____	_____	<u>Software updates are fitted in as production allows</u>
Special Time Allotment	_____	_____	<u>Communication tests usually on Sunday</u>
Production	_____	_____	<u>24 hrs a day 7 days a week</u>
Communications	_____	_____	<u>24 hrs a day 7 days a week</u>
Debugs	<u>5 AM</u>	<u>4:30 PM</u>	<u>Fitted in as production allows.</u>
	<u>Mon to</u>	<u>Friday</u>	_____

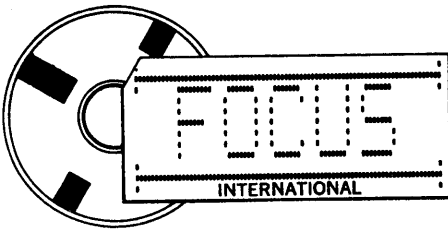
b. Job Scheduling: Describe your job scheduling algorithm
Use schedule board approach showing jobs within applications that will fit in total amount of core avail - File usage tape usage, etc.

c. Accounting Method:
 Charges based on: CPU & Channel Time
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
Pooling of input data from Mohawk tape devices to be run on 607 tape units necessitates engineering alignment because of inter-block gap differences and screwing of tapes.

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: Expansion to 262K - (shared) two additional 821-2's - 1 more 841-4 and 2 tape drives
 b. Software: Update to CUP 211 (Master 3.0) and then update to Master 3.2.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: NATIONAL ASTRONOMY & IONOSPHERE CENTER
Installation Name
Box 995 ARECIBO PUERTO RICO
City State
2. FOCUS CONTACT: ELLIOTT A. MAYO COMPUTER DEPT. HEAD
Name Title
3. DATE: 7/18/10 4. FOCUS INSTALLATION CODE: NAIC
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION:
RADIO - RADAR ASTRONOMY & IONOSPHERIC DATA
TAKING & ANALYSIS

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

AUG 14 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
3300	1	32

(2) Console(s)

Model	Quantity
3301	1

(3) Tape Transport(s)

Model	Quantity
607	3

(4) Disk(s)

Model	Quantity
854	2

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
501	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>CALCOM S65 PLOTTER</u>	<u>1</u>
<u>CDC 415 CARD PUNCH</u>	<u>1</u>
<u>CDC 3691 PAPER TAPE READER/PUNCH</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences</u> (Or Rate of Occurrences)	<u>Nature of Failure</u>
<u>CARD READER</u>		<u>COMPARE ERROR, FEED FAIL</u>
<u>CARD PUNCH</u>		<u>FEED FAIL</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 4.1-MP Latest Update JUNE 72 PSR No. SELECTED

b. Local Modifications (Add additional description if desired, as appendix)

ACCOUNTING SYSTEM

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>IFIX</u>	<u>LOCAL</u>
<u>FLOATF</u>	
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 10 DAYS
Longest time period between hardware/software failures 30 DAYS

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	<u>8:00 AM</u>	<u>AS REQ'D</u>	<u>MON OR TUES</u>
Systems Work	<u>AS NEEDED</u>		
Special Time Allotment	<u>AS NEEDED</u>		
Production	<u>24 HOURS/DAY</u>		<u>7 DAYS/WK</u>
Debugs	<u>AS NEEDED</u>		

b. Job Scheduling: Describe your job scheduling algorithm

TIME SHARING - PRIORITY, BATCH PROCESSING
BATCH SCHED: (1) 5 MIN. NO MT, NO PLOTTING (2) 5 MIN. MT/PLOTTING
(3) 15 MIN JOBS (4) GREATER THAN 15 MIN. JOBS
(5) PLOTTING > 5 MIN. RUN BACKGROUND

c. Accounting Method:

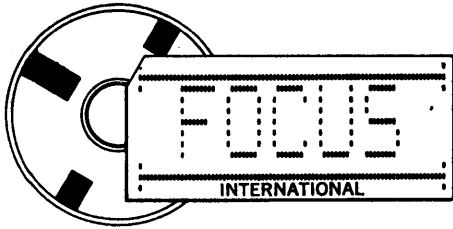
Charges based on: N/A
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: TERMINALS - CONNECT TO TELESCOPE
PERHAPS LINK TO ANOTHER SYSTEM
 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: NORTHERN ALBERTA INSTITUTE OF TECHNOLOGY
Installation Name
EDMONTON ALBERTA, CANADA
City State
2. FOCUS CONTACT: ELLEN SHILLABEER SYSTEMS ANALYST
Name Title
3. DATE: 72 08 09 4. FOCUS INSTALLATION CODE: NAIT
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: 1. MEET COMPUTING NEEDS OF NAIT COMPUTER SYSTEMS PROGRAM PLUS ALL OTHERS TAKING COMPUTING COURSES
2. MEET ADMINISTRATIVE NEEDS OF INSTITUTE
3. SUPPORT DATA PROCESSING IN SOME COLLEGES AND HIGH SCHOOLS IN ALBERTA

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

AUG 15 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
3170	1	80

(2) Console(s)

Model	Quantity
3301	1

(3) Tape Transport(s)

Model	Quantity
604	2

(4) Disk(s)

Model	Quantity
854	8

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
512	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>3316 - COMMUNICATIONS CONTROLLER</u>	<u>1</u>
<u>364-1, 361-5, 361-1, 201-A DATA SET</u>	<u>1 EACH</u>
<u>ASR-33's</u>	<u>2</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>200 USER TERMINAL</u>	<u>1</u>
<u>(RED DEER COLLEGE)</u>	

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>CORE</u>	<u>ONCE A DAY</u>	<u>IN CORE PARITY ERROR</u>
<u>HARDWARE?</u>	<u>3-4 A DAY</u>	<u>ED4- HARDWARE CAUSED (SUSPECT 200 UT)</u>
<u>DISK</u>	<u>5-6 A DAY</u>	<u>RECOVERABLE PARITY ERRORS</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER Latest Update V3.2 PSR No. 235

b. Local Modifications (Add additional description if desired, as appendix)

UTILITY PACKAGE
AIM IS TO KEEP MASTER AS FREE OF LOCAL
MODS AS POSSIBLE (EASIER TO UPGRADE)

c. QSS(s) (Quote Special Software)

- (1) INTERACTIVE BASIC - PARIS /FRANCE
- (2) BATCH BASIC - CAL STATE
- (3) SSP PACKAGE - SIR GEORGE WILLIAMS
- (4) CALCOMP PLOT ROUTINES - FOCUS

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>FTN</u>	<u>235</u>
<u>FTNU</u>	
<u>CBL</u>	
<u>LCBL</u>	
<u>CMP</u>	
<u>PERT/TIME</u>	
<u>RESPOND/EXPORT/IMPORT</u>	
<u>MCS-III</u>	

e. Current Problems and Comments:

POOR UTILITIES; NEED MORE SUPPORTED APPLICATION
PACKAGES (LINEAR PROGRAMMING); MANUALS BEHIND
SOFTWARE (LISA/ANSI COBOL). CDC AS A CORPORATION NOT
RESPONSIVE ENOUGH TO SOFTWARE PROBLEMS.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: SEQUENCING OF JOBS NOT SATISFACTORY, 'E04'
ERRORS CAUSED BY 200 MT DATA SET
- (2) Compilers and System Routines: LISA/ANSI COBOL BUGS, POOR ANSI
TAPE LABEL HANDLING, MSSORT CANT HANDLE UNIVERSAL
RECORDS, ACCOUNTING RECORDS (*SAT) NOT READABLE BY LCBL.

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good X Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 1 1/2 days / 2 days
Longest time period between hardware/software failures 5 days / 5 days

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	<u>7am</u>	<u>9am</u>	<u>MON/WED/FRI</u>
	<u>7am</u>	<u>8am</u>	<u>TUE/THUR</u>
Systems Work	<u>NOT</u>	<u>SCHEDULED</u>	
Special Time Allotment	<u>STUDENT JOBS (TIME PERIODS REQUIRED BY COURSE)</u>		
Production	<u>USUALLY IN EVENING</u>		
Debugs	<u>DURING DAY (9am - 5pm)</u>		

b. Job Scheduling: Describe your job scheduling algorithm

- SCHEDULE STUDENT JOBS TO CORRESPOND TO COURSE NEEDS
- PRODUCTION GENERALLY DONE AT NIGHT
- 2-4 HOURS NON-STUDENT TEST TIME IN DAY SHIFT

c. Accounting Method:

Charges based on: NO CHARGING
 Billing algorithm: _____

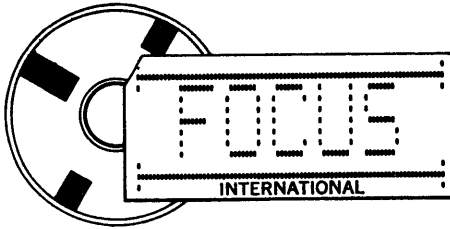
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: MORE CORE, UPGRADE DISKS, POSSIBLY MORE TAPE DRIVES
- b. Software: MASTER V3.3, EROS (INTERACTIVE FORTRAN), ACCOUNTING PACKAGE FOR STUDENT USE, ENGINEERING PACKAGES (STRESS, COBO).

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

Generally dissatisfied with the CDC structure as it is somewhat unresponsive to problems (the customers or their own staffs).



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: National Center for Earthquake Research
U. S. Geological Survey, Menlo Park, California ^{Installation Name} 94025
City State
2. FOCUS CONTACT: S. W. Stewart Geophysicist
Name Title
3. DATE: 72 / 08 / 11 4. FOCUS INSTALLATION CODE: NCER
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Processing telemetered earthquake data in real-time; analog-to-digital conversion and processing of earthquake data.

OFFICE OF USER

AUG 28 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>1704</u>	<u>2 (inc. 1 on order)</u>	<u>32 + 24</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
<u>1711</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>608/1732</u>	<u>2</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
<u>1739-1</u>	<u>1 (on order)</u>
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
<u>1728/430</u>	<u>1 (on order)</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>1742</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
QSE 4224: A/D with $\pm 2 \frac{1}{2}$ volts range	1
QSE 12163: Analog multiplexor address expander	2 (on order)
QSE 11869: Analog input interface	2 (on order)

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
1500 Series: Logic level input and output	
Contact closure output, sample rate generator (1572)	
Chaining buffer channel (1571) 1706-1750	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
1723-Paper tape punch	sporadic 2/month	doesn't punch all levels
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent X Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System Utility Latest Update 8/72 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

Substantial modification to allow system to be used by Programmers.

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

<u>Tape FORTRAN</u>	<u>Updated through PSR Summary or Local Modifications:</u>
<u>ASSEMBLER</u>	<u>Loc. mod. to operate from mag. tape</u>
<u>LISTER</u>	<u>Locally-generated</u>
<u>PT COPY UTOPIA</u>	_____
<u>P.T. EDITOR</u>	<u>Modifically locally.</u>
_____	<u>Locally-generated program.</u>
_____	<u>Library maintenance system.</u>

e. Current Problems and Comments:

Tape FORTRAN symbol table unnecessarily small; format repetition inoperative.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0800	1000	Wednesday
Systems Work			
Special Time Allotment			
Production			
Debugs			

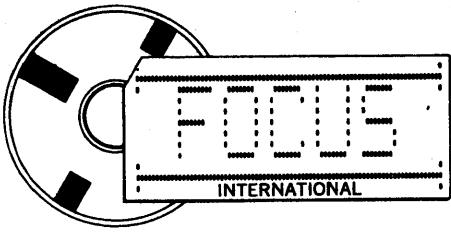
b. Job Scheduling: Describe your job scheduling algorithm
Not a job shop. Individuals sign-up for blocks of time.

c. Accounting Method:
 Charges based on: One project pays all costs.
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
a. Hardware: Link the 2 1704's via 3423 (dual access tape controller) with 607's, and communicate via 1500 series logic level I/O.
b. Software: Change from utility to MSOS.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Northeastern University
Boston Mass.
City State
2. FOCUS CONTACT: R. I. Carter Computation Center Director
Name Title
3. DATE: 72/ 8 / 14 4. FOCUS INSTALLATION CODE: NEUC
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Supply computing facilities for
faculty research and computer related courses.

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

AUG 21 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
3300	1	81K

(2) Console(s)

Model	Quantity
3291	1

(3) Tape Transport(s)

Model	Quantity
604	3

(4) Disk(s)

Model	Quantity
841-3	1

(5) Card Reader(s)

Model	Quantity
405	2
415	1

(6) Line Printer(s)

Model	Quantity
512	2

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
Calcomp 565 plotter with 111 controller	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
None	

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
None	

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
512	2 or 3 per month both 512's combined	paper stacking, sync errors, paper motion faults, power problems
405	2 or 3 per month both 405's combined	incorrect compare errors, misreading cards

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER Latest Update 3.2 PSR No. 251

b. Local Modifications (Add additional description if desired, as appendix)
Support for 2 card readers, CRT operators console, Modifi-
cations to task suspension, Modification to job scheduling
and initialization to give preference to short student
jobs.

c. QSS(s) (Quote Special Software)
(1) None
(2) _____
(3) _____
(4) _____

d. Compiler and Library Routines :	Updated through PSR Summary or Local Modifications:
<u>ANSI FORTRAN 2.1</u>	<u>264</u>
<u>ANSI COBOL 2.1</u>	<u>251</u>
<u>MS FORTRAN 3.2</u>	<u>251</u>
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:
Having trouble getting a hold of the 3.3 release.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:
(1) Operating System: _____

(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:
____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:
Mean time between hardware/software failures Hardware: 2 weeks/Software: 1 week
Longest time period between hardware/software failures Hardware: 1 month/Software: 1 month

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>7AM</u>	<u>8:30AM</u>	<u>Mon, Tues, Thur, Fri.</u>
	<u>7AM</u>	<u>10AM</u>	<u>Wed.</u>
Systems Work			<u>Weekends</u>
Special Time Allotment	<u>10PM</u>	<u>7AM</u>	<u>Weekdays</u>
Production	<u>9AM</u>	<u>10PM</u>	<u>Mon, Tues, Thur, Fri.</u>
	<u>10AM</u>	<u>10PM</u>	<u>Wed.</u>
	<u>9AM</u>	<u>4PM</u>	<u>Sat.</u>
Debugs	<u>same as production</u>		

b. Job Scheduling: Describe your job scheduling algorithm

Student jobs restricted to 1 minute, 500 lines and 3g QP, are Class S. System will initiate at least 1 class S job although insufficient core is available. If a job schedules peripherals it is automatically class I unless user specifies otherwise. All others class C.

c. Accounting Method:

Charges based on: See attached

Billing algorithm: See attached

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: We are replacing 3300 with CYBER 70/72 system in December

b. Software: KRONOS

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

CHARGING FORMULA

The cost formula in words is - total cost for a job equals:

Cover Charge
 plus Main Frame (core and time) charge
 plus Background Output charge
 plus All scheduled Peripheral charges

The formula as a mathematical statement then becomes:

$$C = \$.25 + K_1 K_2 R (t_{cp} + \frac{1}{2} t_{ch}) + L + P + PL + T \sum_{i=1}^n r_i$$

where:

C = total cost per job

\$.25 = cover charge per job

$$K_1 = \frac{4t_{cp} + 1800}{5t_{cp} + 1500} \quad (\text{where } t_{cp} \text{ is in seconds})$$

$K_2 = 1.0,$	$0 <$	Core in Quarter Pages	$<$	32
$= 1.1,$	$32 <$	" " " "	$<$	48
$= 1.2,$	$48 <$	" " " "	$<$	64
$= 1.4,$	$64 <$	" " " "	$<$	80
$= 1.6,$	$80 <$	" " " "	$<$	96
$= 1.8,$	$96 <$	" " " "	$<$	112
$= 2.0,$	$112 <$	" " " "	$<$	128

R = \$150.00/hour (basic rate for CPU Time)

t_{cp} = CPU time

t_{ch} = Channel time

Background Output will be charged as follows:

L = printing charge at \$1.50/thousand lines

P = punching charge at \$3.00/thousand cards

PL = plotting charge at \$15.00 per hour

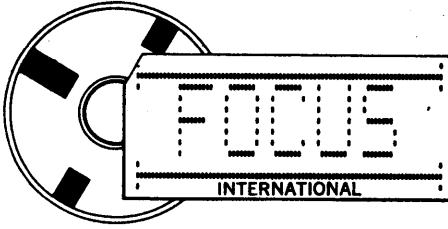
Note: $1\frac{1}{2}$ " of pen travel = 1 second

Peripherals when scheduled will be charged using T as total clock time (time off - time on), and the rates (r_i) as follows:

Model 415 Punch	\$15.00	per hour
Model 512 Printer	25.00	" "
Model 604 Tape	10.00	" "
Model 841 Disk	20.00	" "

CC 6

(revised 6/15/71)



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: National Institutes of Health
Bethesda City Maryland State
Installation Name

2. FOCUS CONTACT: Robert J. Romanoff Systems Programmer
Name Title

3. DATE: 72 / 08 / 09 4. FOCUS INSTALLATION CODE: NIH
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: To provide NIH researchers with a general-purpose hybrid computer facility. Major efforts are being directed toward analysis of Biomedical signals from patient monitoring and experimental laboratories.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER
AUG 14 1972

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
3100	1	16

GROUP LIAISON

(2) Console(s)

Model	Quantity
3100-integrated	1

(3) Tape Transport(s)

Model	Quantity
604	3

(4) Disk(s)

Model	Quantity
853	2

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
505	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
SS-100 Analog Computer	1
HL-20 Hybrid Interface	

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
VR 3400 Analog Tape Transport	1
EAI 1130 Analog Plotter	1
CalComp 565 Plotter	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
T4002 Graphics Terminal	1

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
3192	approx. 1 per 2 wks.	various typewriter mechanical failures

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Latest Update 3.0 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

<u>(1) Modification to some FORTRAN subroutines to make them reentrant.</u>	<u>(2) Modifications to allow interactive graphics using hybrid interface as a controller.</u>

c. QSS(s) (Quote Special Software)

- (1) MIMIC- Analog Simulator Program
- (2) TEKPLOT - Graphics package for T4002 Graphics Terminal
- (3) Hybrid Support Package
- (4) _____

d. Compiler and Library Routines:

FORTRAN/MSOS 3.1

Updated through PSR Summary or Local Modifications:

local modification as needed

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- _____
- (2) Compilers and System Routines: _____
- _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures not available

Longest time period between hardware/software failures not available

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0600	0800	Tuesday
	0600	0800	Thursday
	0001	0600	Sunday
Systems Work			
Special Time Allotment			
Production			
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

8½ hrs. scheduled each day - Mon.-Fri.
1½ hrs. of this is for batched jobs of not more than 15 min. duration.
The remainder is scheduled by user sign-up sheets.

c. Accounting Method:

Charges based on: None
 Billing algorithm: _____

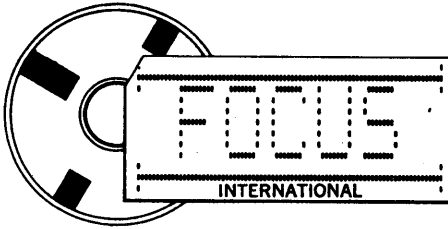
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: possible addition of 16K

 b. Software: Install current version of MSOS, if additional core is purchased.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Naval Air Systems Command, Navy Department

Washington City D. C. State 20360 Installation Name

2. FOCUS CONTACT: Rudi F. Saenger Name Branch Head Title

3. DATE: 72 / 8 - / 10 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: NLSC Title

5. OBJECTIVES OF INSTALLATION: Engineering/Scientific Computing, Aircraft Design, Analysis, and Evaluation Operations Research (Simulation)

OFFICE OF USER

AUG 28 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE: Remote terminal to 6700 at Naval Ship Research and Development Center GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>6700</u>	<u>1</u>	<u>131,072</u>

(2) Console(s)

Model	Quantity
<u>Display 6612</u>	<u>1</u>

(3) Tape Transport(s)

Model	Quantity
<u>657-3</u>	<u>6</u>
<u>659-3</u>	<u>2</u>

(4) Disk(s)

Model	Quantity
<u>6638</u>	<u>1</u>
<u>841-7</u>	<u>1</u>
<u>841-8</u>	<u>2</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>2</u>

(6) Line Printer(s)

Model	Quantity
<u>512-1</u>	<u>4</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) OSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
3694 Paper Tape Reader/Punch	1
415 Punch	1
6674 Data Set Controller	1

*

b. REMOTE SITE(S): In-house 1700 connected by telephone line to 6700 at Naval Ship Research and Development Center

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
1700 with 32,00010	1
512-1 Line Printer	1
405 Card Reader	1
415 Card Punch	1
853 Disk Storage Drive	1
1711 Keyboard	1
3293 Increment Plotter	1

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
512 Line Printer	16 times in 1 year	Memory busy, parity error or compare fault
1729-2 Card Reader	56 times in 1 year	Mechanical adjustments
405 Card Reader	2 week old replacement for 1729-2	Set-up problems
415 Card Punch	12 times in 1 year	Adjustments
1738 Disk Controller	9 times in 1 year	Bad circuit cards
853 Disk Drives	4 times in 1 year	Adjustments

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

Good response time, but a lack of experience in locating troubles

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 2.1 Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

Pseudo-tape

CalComp Plotter

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

FORTRAN 2.0A

Updated through PSR Summary or Local Modifications:

e. Current Problems and Comments:

Currently waiting for MSOS 4.0 and FORTRAN 3.0

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: Irrelevant JOI errors (May be hardware rather than software)

(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures Less than 8 hours

Longest time period between hardware/software failures Less than 8 hours

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>3:00</u>	<u>6:00</u>	<u>Wednesday</u>
Systems Work	<u>7:00</u>	<u>8:00</u>	<u>As needed</u>
Special Time Allotment			
Production	<u>7:00</u>	<u>4:00</u>	<u>Monday-Friday</u>
Debugs	<u>7:00</u>	<u>4:00</u>	<u>Monday-Friday</u>

b. Job Scheduling: Describe your job scheduling algorithm
First-in, first-out

c. Accounting Method:

Charges based on: Clock-time for record purposes only

Billing algorithm: None

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: Digigraphics

b. Software: MSOS 4.0

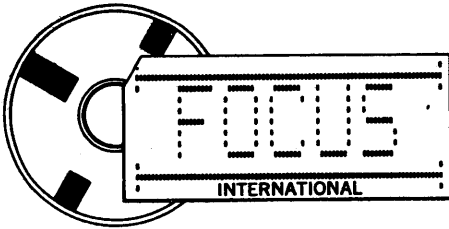
FORTRAN 3.0

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

* 6. a. (9) Other Devices

	<u>Description</u>	<u>Quantity</u>
6676	Data Set Controller	1
6671	Data Set Controller	1
	Digigraphics	2
1700	Batch Terminals	4
200	User Terminals	7
ASR-33	Teletypewriter	32

All further responses refer only to the CDC 1700 at Naval Air Systems Command



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: NOAA - National Oceanic & Atmospheric Administration
Installation Name
Boulder City Colorado State
2. FOCUS CONTACT: A J Brittain Name Comp. Spec. Title
NOAA
3. DATE: 72 / 8 / 7 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: NOAA
5. OBJECTIVES OF INSTALLATION: General scientific programming support / computer services for Government research laboratories

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER
 AUG 17 1972

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	GROUP LIAISON Core (K)
3800	2	2 x 64K
160	1	
XDS 940	1	64K

(2) Console(s)

Model	Quantity
3291/211	2

(3) Tape Transport(s)

Model	Quantity
607	12
659-2	2

(4) Disk(s) / Drums

Model	Quantity
854 disks	2
861 drums	2

(5) Card Reader(s)

Model	Quantity
405	2

(6) Line Printer(s)

Model	Quantity
S12	3

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>280 micro film</u>	<u>1</u>
<u>3682/3881 and 160 to drive U200</u>	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>U200</u>	<u>1</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>659</u>	<u>Unusable at 1600 cpi</u>	<u>Design problems in control unit</u>
<u>861</u>	<u>Several per week</u>	<u>unknown / bad data from drum reads</u>
<u>607</u>	<u>Lets</u>	<u>hard to keep in adjustment - must use customer tests to isolate</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System Drum Scope Latest Update local system changes extensive PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)
CRT operator console (tape jobs queued, etc.), magnetic tape drivers will full error recovery, many 'built in' diagnostic and error recognition routines, 9-track and 7-track driver, speed up to FORTRAN compiler and execution time routines, system restart and memory dump improvements, U200 remote handling, microfilm for graph and/or print output, etc.

c. QSS(s) (Quote Special Software)
(1) _____
(2) _____
(3) _____
(4) _____

d. Compiler and Library Routines :	Updated through PSR Summary or Local Modifications:
<u>FORTRAN</u>	<u>local system changes extensive</u>
<u>COBOL</u>	_____
<u>AESOP</u>	_____
<u>INPOL</u>	_____
_____	_____
_____	_____

e. Current Problems and Comments:
9 track hardware -

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:
(1) Operating System: Drum/Disk Scope needs better I/O error detection and recovery techniques - some errors go undetected.
(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:
_____ Excellent _____ Very Good _____ Good X Fair _____ Poor

c. System Stability:
Mean time between hardware/software failures 24 hours on software - 8 hours on hardware
Longest time period between hardware/software failures 2 weeks on software - 1 week on hardware

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	5am	8am	M-F
Systems Work	As Needed - average of about 6 hrs per week - about 4 hours of this on weekends.		
Special Time Allotment			
Production	8am 10am	3am 5pm	M-F Sat
Debugs			

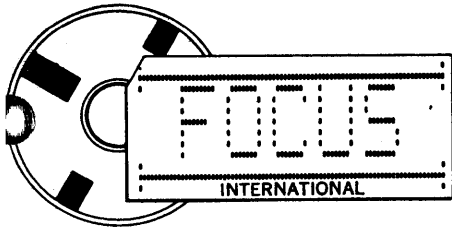
b. Job Scheduling: Describe your job scheduling algorithm
 Priority 0-6, highest priority pays higher fee for computer use but gets good turnaround (1/2 hour) - low priority is very inexpensive, but long turnaround (2 weeks). Can be overridden (tape controls) by operators.

c. Accounting Method:
 Charges based on: Priority used and execution time
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: Front-end for communications and complete file management (permanent files, etc.)
 b. Software: Maintenance and higher reliability only - some development for additional remotes (use of 8090 for synchronous communications).

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: U. S. Naval Research Laboratory
Washington D. C. ^{Installation Name} 20390
City State
2. FOCUS CONTACT: Mrs. Doris E. Gossett Code 7812
3. DATE: 72 / 8 / 15 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: NRL Title
5. OBJECTIVES OF INSTALLATION: Provide a central computer facility for the scientists of NRL.

OFFICE OF USER

AUG 31 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment): **GROUP LIAISON**

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3800</u>	<u>2</u>	<u>65 Each</u>
<u>160</u>	<u>2</u>	<u>4 Each</u>
<u>1604</u>	<u>1</u>	<u>32</u>

(2) Console(s)

Model	Quantity
<u>3801</u>	<u>2</u>
<u>161</u>	<u>2</u>

(3) Tape Transport(s)

Model	Quantity
<u>606</u>	<u>11</u>
<u>607R</u>	<u>4</u>
<u>607P</u>	<u>4</u>
<u>609</u>	<u>1</u>
<u>603</u>	<u>2</u>

(4) Disk(s)

Model	Quantity
<u>813</u>	<u>1</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>3</u>
<u>3142</u>	<u>1</u>
<u>1617</u>	<u>1</u>

(6) Line Printer(s)

Model	Quantity
<u>501</u>	<u>3</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>	<u>xxxxxxx</u> <u>Description</u>	<u>Description</u>	<u>Quantity</u>
863	3		3293 (565)	2
861	1		165 (565)	3
211	6		563	1
415	2		3691	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
160	1

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
USER 200 Terminal (Controller, Reader, Printer)	1

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences</u> <u>(Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
861/863(4:1 interlace)	2/day	When chaining together a one word and 255 word read, sometimes the first leyte of the 255 words is lost without indicating a dreem parity error.

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System DRUM/DISK SCOPE^{2.1} Latest Update -- PSR No. 49

b. Local Modifications (Add additional description if desired, as appendix)
609 Magnetic Tape Driver

One driver to drive both the
3691 and the 3293

c. OSS(s) (Quote Special Software)

- (1) 813 disk package
- (2) Background plot routine to run multiple plotters
- (3) Background paper tape output program
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>FORTAN 5.5</u>	_____
<u>COMPASS 5.4</u>	_____
<u>COBOL 4.2</u>	_____
<u>ORALGOL 1.6</u>	_____
<u>NELIAC 1.1</u>	_____
<u>JOVIAL J4</u>	_____
<u>SORT II 2.4</u>	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: No major problems

(2) Compilers and System Routines: No major problems

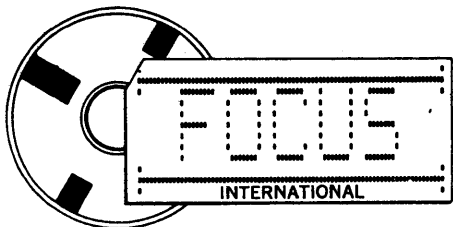
b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good X Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 8 hours

Longest time period between hardware/software failures 96 hours



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: NORGES STATSBANER

OSLO NORWAY
City State

2. FOCUS CONTACT: Kåre Marthinsen Kons.
Name Title

3. DATE: 72/09 /05 4. FOCUS INSTALLATION CODE: NSB
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: To increase the computing capacity and to get a system which we could expand to meet the future needs.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

SEP 11 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>AC 105</u>	<u>1</u>	<u>32</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
<u>3301A05</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>608</u>	<u>4</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
<u>854</u>	<u>4</u>
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>512</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>405 Card Reader</u>	<u>7</u>	<u>Slipped card</u>
	<u>1</u>	<u>Missed column</u>
<u>512 Line Printer</u>	<u>1</u>	<u>Does not stop by end-of-form cond.</u>
<u>3312 BDP</u>	<u>Several</u>	<u>Different errors</u>
<u>3302 Memory</u>	<u>6</u>	<u>Parity errors.</u>

+ several errors of different kinds

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 4.2 Latest Update *254 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

Postbox _____
Changed autoloading-routine _____
Expanded accounting-rec. _____

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>UCBL</u> _____	<u>264</u> _____
<u>MS-FTN and COMPASS</u> _____	<u>254</u> _____
<u>Error recovery</u> _____	<u>237</u> _____
<u>The rest is mainly at level</u> _____	<u>254</u> _____
_____	_____
_____	_____

e. Current Problems and Comments:

MS-Sort gets "OUT OF SEQUENCE" when trying to utilize enhanced BDP. Minor problems in UCBL (which we get around).

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: Error recovery very bad and inconsistent
- (2) Compilers and System Routines: We have had many errors in UCBL/UCBL-SORT

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____ } can not be answered
 Longest time period between hardware/software failures _____ }

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>7</u>	<u>9</u>	<u>4 days</u>
	<u>7</u>	<u>11</u>	<u>1 day</u>
Systems Work	<u>1 hour</u>		<u>Mo-Fri</u>
Special Time Allotment			
Production	<u>9 (11)</u>	<u>24</u>	<u>Mo-Fri</u>
Debugs			

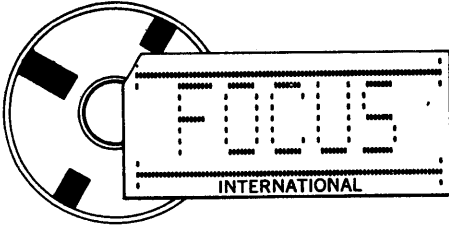
b. Job Scheduling: Describe your job scheduling algorithm
planned production and program tests mixed by the job-scheduler.

c. Accounting Method:
 Charges based on: No charging
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
Generally many hardware problems (ILL. INSTR., ILL.WRITE etc. etc.).
These problems caused CDC to exchange our BDP-unit, Main-
frame, Memory modules and datachannels.

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: 3311 and 32K of core will be added. The 854's will be
replaced by 841-5.
 b. Software: Will install MASTER.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Northrop Services, Inc.

GSFC Code 320.1, Greenbelt MD 20771

Installation Name

City

State

2. FOCUS CONTACT: C. A. Armbrust EDP Manager

Name

Title

3. DATE: 72 / 08 / 17 4. FOCUS INSTALLATION CODE: NSI

Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: Supplies management, programming, operation, and maintenance support for a multi-computer data collection and analysis system. This system is the focal point for the real-time collection, analysis, and display of hardline and telemetry data from spacecraft and facilities during environmental testing.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3100</u>	<u>1</u>	<u>32K</u>
<u>3300</u>	<u>1</u>	<u>65K</u>
<u>160A</u>	<u>1</u>	<u>32K</u>

(2) Console(s)

Model	Quantity
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

(3) Tape Transport(s)

Model	Quantity
<u>604</u>	<u>8</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

(4) Disk(s)

Model	Quantity
<u>853</u>	<u>2</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>3</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

(6) Line Printer(s)

Model	Quantity
<u>512</u>	<u>1</u>
<u>505</u>	<u>1</u>
<u>3254</u>	<u>1</u>

(7) Data Cell(s)

Model	Quantity
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>CALCOMP Plotter, 3293</u>	<u>1</u>
<u>EAI Plotter, 3500</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>CRT's, 211</u>	<u>4</u>
<u>Typewriter, 218</u>	<u>1</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences</u> <small>(Or, Rate of Occurrences)</small>	<u>Nature of Failure</u>
<u>3100</u>	<u>2 OR 3/WK FOR</u> <u>3 MO. - FIXED</u>	<u>INTERNAL PARITY</u> <u>TYPE LOAD LIGHT ON</u>
<u>512</u>	<u>CONTINUOUS</u>	<u>PAPER STACKING</u>
<u>512</u>	<u>2 OR 3/WK - FIXED</u>	<u>PAPER OUT SWITCHES</u>
<u>405</u>	<u>2/WK</u>	<u>SLIPPING CDS ON POWER UP WITH</u> <u>FCO PB 1737B</u>
<u>505</u>	<u>CONTINUOUS</u>	<u>PHASING</u>
<u>505</u>	<u>CONTINUOUS</u>	<u>INTENSITY ON INDIVIDUAL COLUMNS</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

(CONTINUED)

7. HARDWARE PROBLEMS

<u>Device</u>	<u>No. of Occurrences</u>	<u>Nature of Failure</u>
<u>505</u>	<u>1 OR 2/MO</u>	<u>DROP COLUMNS</u>
<u>3254</u>	<u>CONTINUOUS</u>	<u>TOO NOISY</u>
<u>3254</u>	<u>2/WK FOR 2 MO - FIXED</u>	<u>PAPER OUT SWITCHES</u>
<u>3192</u>	<u>CONTINUOUS 3 MO</u>	<u>PLATEN SLIPS LATERALLY</u>
<u>3192</u>	<u>2 or 3/WK</u>	<u>CARRIAGE RETURN</u>
<u>211</u>	<u>1/MO</u>	<u>CABLE CONNECTORS BREAK</u>
<u>211</u>	<u>INTERMITTENT</u>	<u>OR PULL LOOSE</u>
		<u>HIGH VOLTAGE POWER</u>
		<u>SUPPLY PROBLEMS</u>

8. SOFTWARE SYSTEMS

a. Current Operating System RTS 2.0 Latest Update _____ PSR No. *

b. Local Modifications (Add additional description if desired, as appendix)

Numerous additions to fit local requirements - disk drives, CRT drives
compiler modifications, etc.

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>COMPASS</u>	<u>*</u>
<u>FORTRAN</u>	<u>*</u>
<u>COBOL</u>	<u>*</u>
<u>RG</u>	<u>*</u>
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

*We implement only those PSR's which are directly related to our
particular installation and hardware configuration.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: COBOL

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair X Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>6 A.M.</u>	<u>8 A.M.</u>	<u>Tues through Fri.</u>
	_____	_____	_____
	_____	_____	_____
Systems Work	<u>As required</u>		_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
Production	<u>At any time if in support of a test; otherwise, development work has priority.</u>		
	_____	_____	_____
Debugs	<u>Next job status unless a priority production run is needed.</u>		
	_____	_____	_____
	_____	_____	_____

- b. Job Scheduling: Describe your job scheduling algorithm
- By priority 1. Real-time inquiries
 - 2. Jobs in support of a test operation
 - 3. Development jobs
 - 4. All other production jobs

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

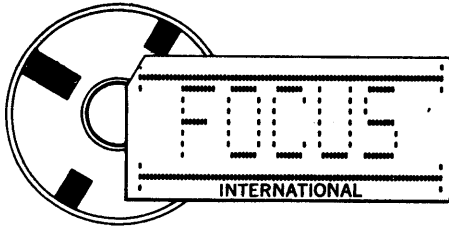
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: Replacing 853's with 854's and adding two 854's to the 3100 for MSOS

b. Software: Switching to MSOS on the 3100

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: The Netherlands Ship Model Basin
Installation Name
Wageningen, P.O.Box 28 The Netherlands
City State
2. FOCUS CONTACT: W.Verschuur Ir
Name Title
3. DATE: 72/ 09 / 01 4. FOCUS INSTALLATION CODE: N.S.M.B.
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Computing aid for research-and design purposes in connection with naval architecture

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

SEP 11 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
3304	1	32

(2) Console(s)

Model	Quantity
3301	1

(3) Tape Transport(s)

Model	Quantity
608	2

(4) Disk(s)

Model	Quantity
853	2

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
3254	1

(7) Data Cell(s)

Model	Quantity

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 4.2 Latest Update 22 jun 72 PSR No. 254

b. Local Modifications (Add additional description if desired, as appendix)

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>Algol</u>	<u>PSR and Local Modifications</u>
<u>Fortran</u>	<u>PSR</u>
<u>Compass</u>	<u>PSR</u>
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: -----

- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 14 days hardware
Longest time period between hardware/software failures 4 weeks hardware

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>08.30</u>	<u>09.30</u>	<u>MO thru fri</u>
Systems Work			<u>incidentally</u>
Special Time Allotment	<u>Upon reservation</u>		
	<u>in good time</u>		
Production	<u>0700</u>	<u>0100</u>	<u>MO thru fri</u>
Debugs			<u>incidentally</u>

b. Job Scheduling: Describe your job scheduling algorithm

Sequential Batch

c. Accounting Method:

Charges based on: Foreground time and number of printer-lines
 Billing algorithm: _____

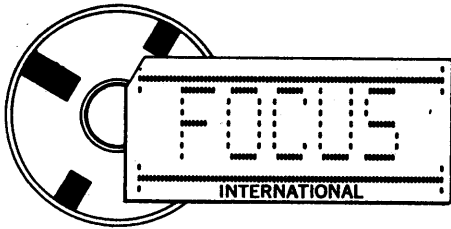
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: Expansion with one 853 disk-drive

 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. **CONTRIBUTING ORGANIZATION:** Naval Ship Research & Development Center
Bethesda, Maryland 20034
City State Installation Name

2. **FOCUS CONTACT:** Anthony V. Cincotta Analyst
Name Title

3. **DATE:** 72 / 8 / 8 4. **FOCUS INSTALLATION CODE:** NSRC
Yr. Mo. Day Title

5. **OBJECTIVES OF INSTALLATION:** (NSRDC TERMINAL)
Interactive Graphics Processing
Remote to CDC 6700

OFFICE OF USER

6. **HARDWARE (include vendor symbol on non-CDC Equipment):**

AUG 21 1972

a. ~~CENTRAL INDEX~~ NSRDC Terminal

GROUP LIAISON

(1) **Mainframe(s)**

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
<u>1774</u>	<u>1</u>	<u>32</u>
_____	_____	_____
_____	_____	_____

(2) **Console(s)**

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(3) **Tape Transport(s)**

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(4) **Disk(s)**

<u>Model</u>	<u>Quantity</u>
<u>853</u>	<u>2</u>
_____	_____
_____	_____

(5) **Card Reader(s)**

<u>Model</u>	<u>Quantity</u>
<u>405</u>	<u>1</u>
_____	_____
_____	_____

(6) **Line Printer(s)**

<u>Model</u>	<u>Quantity</u>
<u>512</u>	<u>1</u>
_____	_____
_____	_____

(7) **Data Cell(s)**

<u>Model</u>	<u>Quantity</u>
<u>1777</u>	<u>1</u>
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
5777 Card Punch Controller	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415 Card Punch 274-Digigraphic Console	1
1711 Teletype 10165 Alphanumeric Keyboard	1
1747 Comm. Term. 10166 Function Keyboard	1
1744 Digigraphic Controller 1583 Typewriter	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
NONE		

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 2.1 Latest Update _____ PSR No. -

b. Local Modifications (Add additional description if desired, as appendix)

Automatic Defining of IMPORT's
data streams when IMPORT is
loaded

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>FORTRAN 2.0</u>	_____
<u>MACRO - Assembler 2.0</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

NONE

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: NONE
- (2) Compilers and System Routines: NONE

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent Very Good ____ Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 2 Weeks
Longest time period between hardware/software failures 4 Weeks

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>600</u>	<u>730</u>	<u>when needed</u>
Systems Work	<u>1600</u>	<u>-</u>	<u>when needed</u>
Special Time Allotment	<u>NONE</u>		
Production			
Debugs	<u>730</u>	<u>1600</u>	<u>Mon - Fri</u>

b. Job Scheduling: Describe your job scheduling algorithm

Interactive Graphics and remote (6700) processing are scheduled on
a first come first serve basis. Any local or system checkout work
is performed when time becomes available.

c. Accounting Method:

Charges based on: No charges on 1700 local jobs.
 Billing algorithm: Handled by the 6700 accounting routines.

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

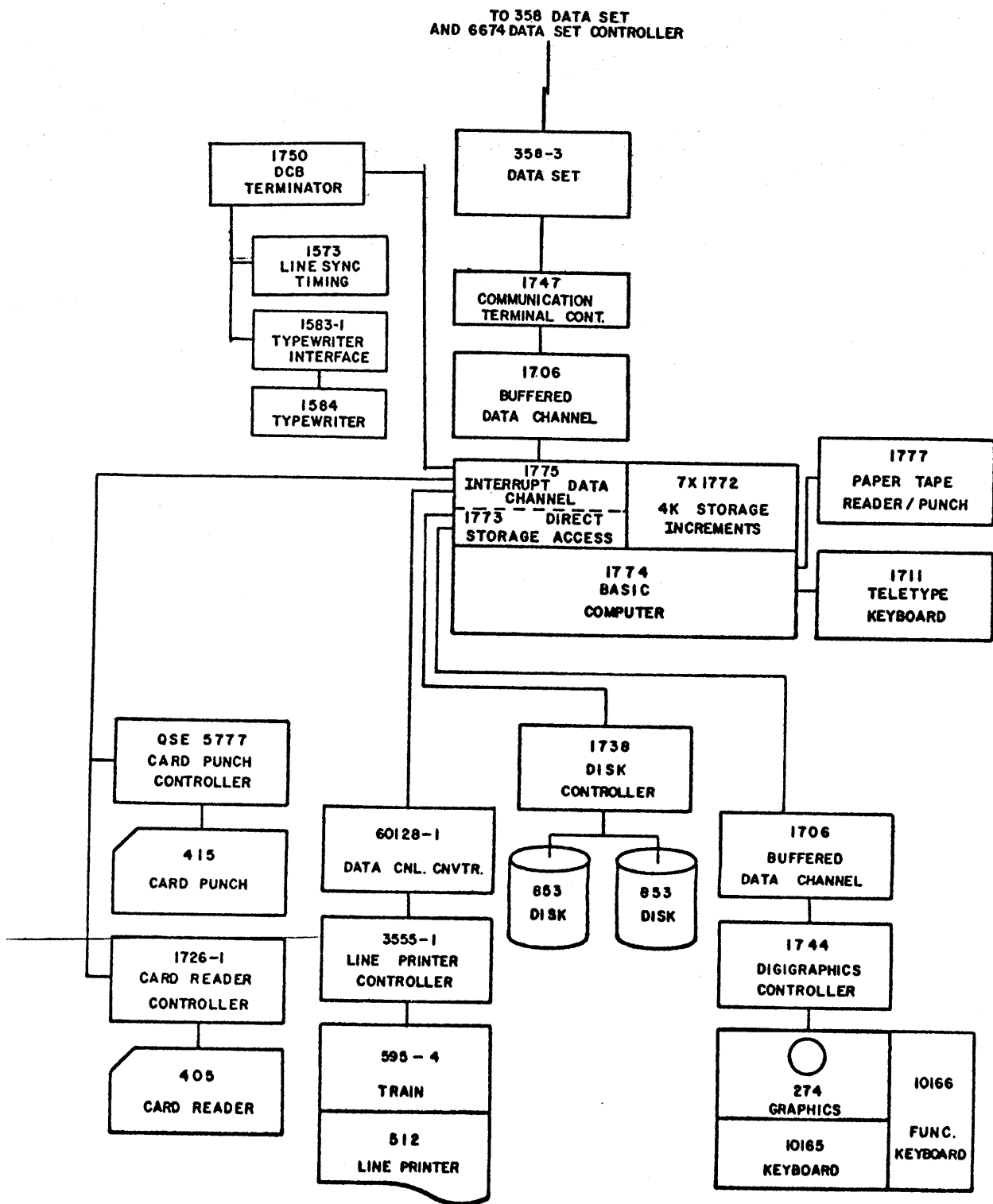
NONE

12. FUTURE PLANS: Describe any future implementations to your current configuration:

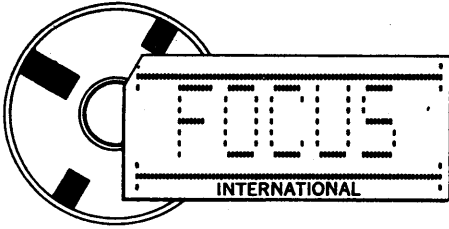
a. Hardware: _____

 b. Software: MSOS 4.0 Implementation

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



NSRDC Terminal



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: New York State Education Department
ALBANY City DIVISION OF ELECTRONIC DATA PROCESSING Installation Name
NEW YORK State
2. FOCUS CONTACT: Ms. Ruth E. Callaghan Name DIRECTOR Title DIU OF E.D.P.
3. DATE: 72108109 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: NYED
5. OBJECTIVES OF INSTALLATION: Processing applications
associated with the field of Education

OFFICE OF USER

AUG 14 1972

GROUP LIAISON

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
3300	1	131-K

(2) Console(s)

Model	Quantity
3301	1

(3) Tape Transport(s)

Model	Quantity
607	10

(4) Disk(s)

Model	Quantity
821	4
854	4

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
512	2

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>211-1 CRT</u>	<u>3</u>
<u>217 CRT</u>	<u>1</u>
<u>35-4 teletype</u>	<u>4</u>
<u>33-4 teletype</u>	<u>2</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>Tape drive</u>	<u>1 per day</u>	<u>Irrecoverable Error</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER Latest Update 3.0 PSR No. 208+

b. Local Modifications (Add additional description if desired, as appendix)

<u>Tape/Disk Dump</u>	<u>System Monitoring Routine</u>
<u>Tape Copy</u>	<u>Improved Console Messages</u>
<u>Modified XFER</u>	<u>LISA Disk Utilization Optimized</u>
<u>File Backup Routines</u>	

c. OSS(s) (Quote Special Software)

- (1) RESPOND
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>USASI COBOL</u>	<u>208+</u>
<u>USASI FORTRAN</u>	<u>252</u>
<u>MS FORTRAN</u>	<u>208+</u>
<u>COMPASS</u>	<u>208+</u>
<u>META</u>	<u>208+</u>
<u>MARS</u>	<u>235</u>
<u>LISA</u>	<u>208+</u>

e. Current Problems and Comments:

Poor quality of PSR coding and timeliness of responses major complaint.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	6 ⁰⁰ AM 5 ³⁰ PM	7 ³⁰ AM 6 ³⁰ PM	5 days 2 days
Systems Work	7 ³⁰ AM	9 ⁰⁰ AM	5 days
Special Time Allotment			
ON-LINE	9 ⁰⁰ AM	5 ⁰⁰ PM	5 days
Production	9 ⁰⁰ AM	6 ⁰⁰ AM	5 days
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

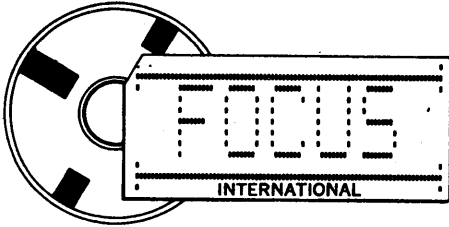
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: 841 DISK - anticipated January 1973
to replace 854 Disk Files!

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: OREGON STATE UNIVERSITY
Installation Name
CORVALLIS
City OREGON
State
2. FOCUS CONTACT: TOM YATES
Name MNGR Administrative Systems
Title
3. DATE: 72/ 8 / 17 4. FOCUS INSTALLATION CODE: OSU
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Computer support for Instructional, Research and Administration use at OSU.

OFFICE OF USER

AUG 25 1972

GROUP LIAISON

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3300</u>	<u>1</u>	<u>98</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
<u>3301</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>604</u>	<u>4</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
<u>854</u>	<u>5</u>
<u>814</u>	<u>1</u>
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>512</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
7696 - ILLEGAL WRITE for BDP	1
877 - PLOTTER Controller	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
3290-21 CRT Controller	2
211 CRT	16

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
200 UT	1

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent Very Good Good Fair Poor

8. SOFTWARE SYSTEMS

a. Current Operating System Customer System (OS3) Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: NA

(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0330	0730	Friday
Systems Work	0100	0730	MON - THURS
	0100	0330	Friday
	1730	0730	SAT - MON
Special Time Allotment			
Production	0730	2300	MON - Fri
	0730	1700	SAT
Debugs			

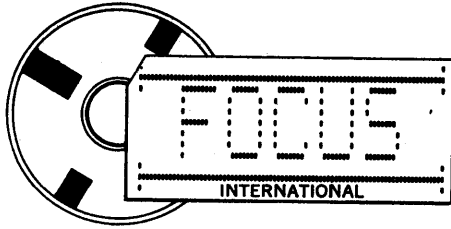
b. Job Scheduling: Describe your job scheduling algorithm
 First Come

c. Accounting Method:
 Charges based on: CPU and peripheral use
 Billing algorithm: —

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: None
 b. Software: None

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: PENNWALT CORP.
KING OF PRUSSIA Installation Name PA
City State

2. FOCUS CONTACT: JOHN C SMALLWOOD PROGRAMMER/ANALYST
Name Title

3. DATE: 721 8 1 8 4. FOCUS INSTALLATION CODE: PCCK
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: SERVICE TECHNICAL PROGRAMMING
 NEEDS, RESEARCH, ENGINEERING AND LIBRARY APPLICATIONS.

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

AUG 17 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>G15D #5</u>	<u>1</u>	<u>2</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
ASR 33 TERMINAL	1
DCT 500 TERMINAL	1
PDP-8	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System _____ Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____

- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm
G-15 NOT IN USE.

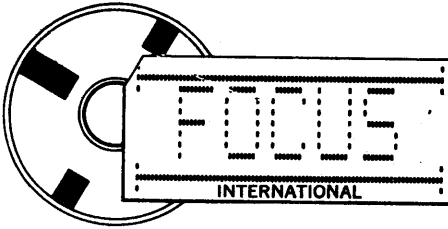
c. Accounting Method:
 Charges based on: _____
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: _____

 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Regneanlegget Blindern-Kjeller
2007 Kjeller Norway
City Installation Name State

2. FOCUS CONTACT: Mr S A Øvergaard Director
Name Title

3. DATE: 72 / 08 / 14 4. FOCUS INSTALLATION CODE: RBK
Yr. Mo. Day Title

5. OBJECTIVES OF INSTALLATION: Providing computing services for five governmental institutions.

OFFICE OF USER

AUG 18 1972

GROUP LIAISON

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
CYBER mod 74	1	128
3600	1	32
8090	1	8

(2) Console(s)

Model	Quantity
DD60	1
3601	1

(3) Tape Transport(s)

Model	Quantity
659	2
606	8

(4) Disk(s)

Model	Quantity
841	8

(5) Card Reader(s)

Model	Quantity
405	2

(6) Line Printer(s)

Model	Quantity
512	1
505	1
1612	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
863 Drums	2

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS 3600 : DS 2.1

a. Current Operating System CYBER: SCOPE 3,4 Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>Algol</u>	_____
<u>Cobol</u>	_____
<u>Fortran</u>	_____
<u>Simula</u>	_____
<u>Gargoyle</u>	_____
<u>Sort</u>	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0700	0830	Tuesday thru Friday
	0700	1100	Monday
Systems Work			
Special Time Allotment			
Production	1100	-	Monday
	0830	-	Tuesday thru Friday
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

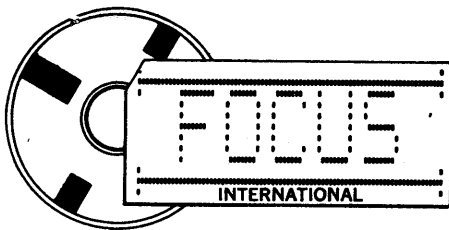
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: 3600 will be shut down 1 quarter of 1973

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Research, Development and Laboratory Automation

Bethesda

Installation Name
Maryland

City

State

2. FOCUS CONTACT: Dale Allen

Computer Specialist

Name

Title

3. DATE: 72 / 08 / 16

4. FOCUS INSTALLATION CODE: RDLA

RDLA

Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: Real Time Clinical Laboratory System

OFFICE OF USER

AUG 21 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
<u>3200</u>	<u>1</u>	<u>32K</u>
<u>PDP8-L</u>	<u>2</u>	<u>8K</u>

(2) Console(s)

<u>Model</u>	<u>Quantity</u>
<u>3201</u>	<u>1</u>
<u>3291</u>	<u>1</u>

(3) Tape Transport(s)

<u>Model</u>	<u>Quantity</u>
<u>604</u>	<u>4</u>
<u>PI</u>	<u>2</u>

(4) Disk(s)

<u>Model</u>	<u>Quantity</u>
<u>854</u>	<u>3</u>

(5) Card Reader(s)

<u>Model</u>	<u>Quantity</u>
<u>405</u>	<u>1</u>

(6) Line Printer(s)

<u>Model</u>	<u>Quantity</u>
<u>512</u>	<u>1</u>

(7) Data Cell(s)

<u>Model</u>	<u>Quantity</u>
--------------	-----------------

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
3287/88 A/D Interface	1
212 CRT Display	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences</u> (Or Rate of Occurrences)	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 4.2 Latest Update Sum #225 PSR No.

b. Local Modifications (Add additional description if desired, as appendix)

Modified version of RIO

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>FORTRAN</u>	<u>Sum #225</u>
<u>COMPASS</u>	<u>Sum #225</u>
<u>MSSORT</u>	<u>Sum #225</u>
<u>COBOL</u>	<u>Sum #225</u>
<u>UTILITY etc.</u>	<u>Sum #225</u>
_____	_____
_____	_____

e. Current Problems and Comments:

Routines such as CIO and PROTECT can generate action error messages that require operator response. Real time background I/O is locked out during this time, causing lost data conditions.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: See "e" above
- (2) Compilers and System Routines: Fortran Data statement will not accept Hollerith constants delineated by quotes.

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures Unknown

Longest time period between hardware/software failures Unknown

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0530	0730	Monday - Friday
Systems Work			
Special Time Allotment			
Production	7 30 a.m.	12:00 p.m.	Monday - Friday
	as required		Saturday - Sunday
Debugs			
	as required		Saturday - Sunday

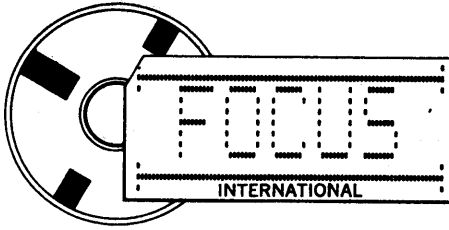
b. Job Scheduling: Describe your job scheduling algorithm
System is used for real-time operations 7:30 a.m. - 5:00 p.m. daily.
Production or non real-time runs 5:00 p.m. - 12:00 p.m. daily.
Available Saturday and Sunday for production or debug run.

c. Accounting Method:
 Charges based on: N/A
 Billing algorithm: N/A

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
a. Hardware: Installation of two PDP-11 Mini computers to replace existing PDP-8L systems
b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Reynolds Electrical & Engineering Co., Inc.
Installation Name
Las Vegas Nevada
City State

2. FOCUS CONTACT: T. J. Ward Information Systems Dept. Manager
Name Title

3. DATE: 72/ 08 / 15 4. FOCUS INSTALLATION CODE: REEC
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: Business and scientific data processing
necessary to REECo's function as a prime contractor to the AEC.

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

AUG 30 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
<u>1704</u>	<u>1</u>	<u>16</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

<u>Model</u>	<u>Quantity</u>
<u>1713A</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

<u>Model</u>	<u>Quantity</u>
<u>601</u>	<u>2</u>
_____	_____
_____	_____

(4) Disk(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(5) Card Reader(s)

<u>Model</u>	<u>Quantity</u>
<u>405</u>	<u>1</u>
<u>430</u>	<u>1</u>
_____	_____

(6) Line Printer(s)

<u>Model</u>	<u>Quantity</u>
<u>512</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>6524-1700 Signal Level Converter</u>	<u>1</u>
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>1747 Data Set Controller</u>	<u>1</u>
<u>Communications Encryption Equipment</u>	<u>1</u>
<u>DC-216A Data Channel Adapter for 512</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>601</u>	<u>Frequent</u>	<u>Tape runaways</u>
		<u>Loss of vacuum</u>
<u>512</u>	<u>Frequent</u>	<u>Static problems</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System RJEMS Latest Update - PSR No. -

b. Local Modifications (Add additional description if desired, as appendix)

Many modifications to CDC supplied system have been made by Computer Sciences Corporation over the past two years.

c. OSS(s) (Quote Special Software)

- (1) RJEMS Operating System
(2) 1700 Off-Line Utility System
(3)
(4)

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

Multiple horizontal lines for listing compiler and library routines and their update status.

e. Current Problems and Comments:

Horizontal lines for listing current problems and comments.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System:
(2) Compilers and System Routines:

b. In your opinion, CDC's response to your software request(s) has been:

Excellent X Very Good Good Fair Poor

c. System Stability:

Mean time between hardware/software failures 1 1/2 days

Longest time period between hardware/software failures 3 days

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>0400</u>	<u>0800</u>	<u>Monday</u>
Systems Work			<u>As requested</u>
Special Time Allotment			<u>As requested</u>
Production	<u>1700</u>	<u>0600</u>	<u>Monday-Saturday</u>
Debugs	<u>0800</u>	<u>1700</u>	<u>Monday-Friday</u>

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

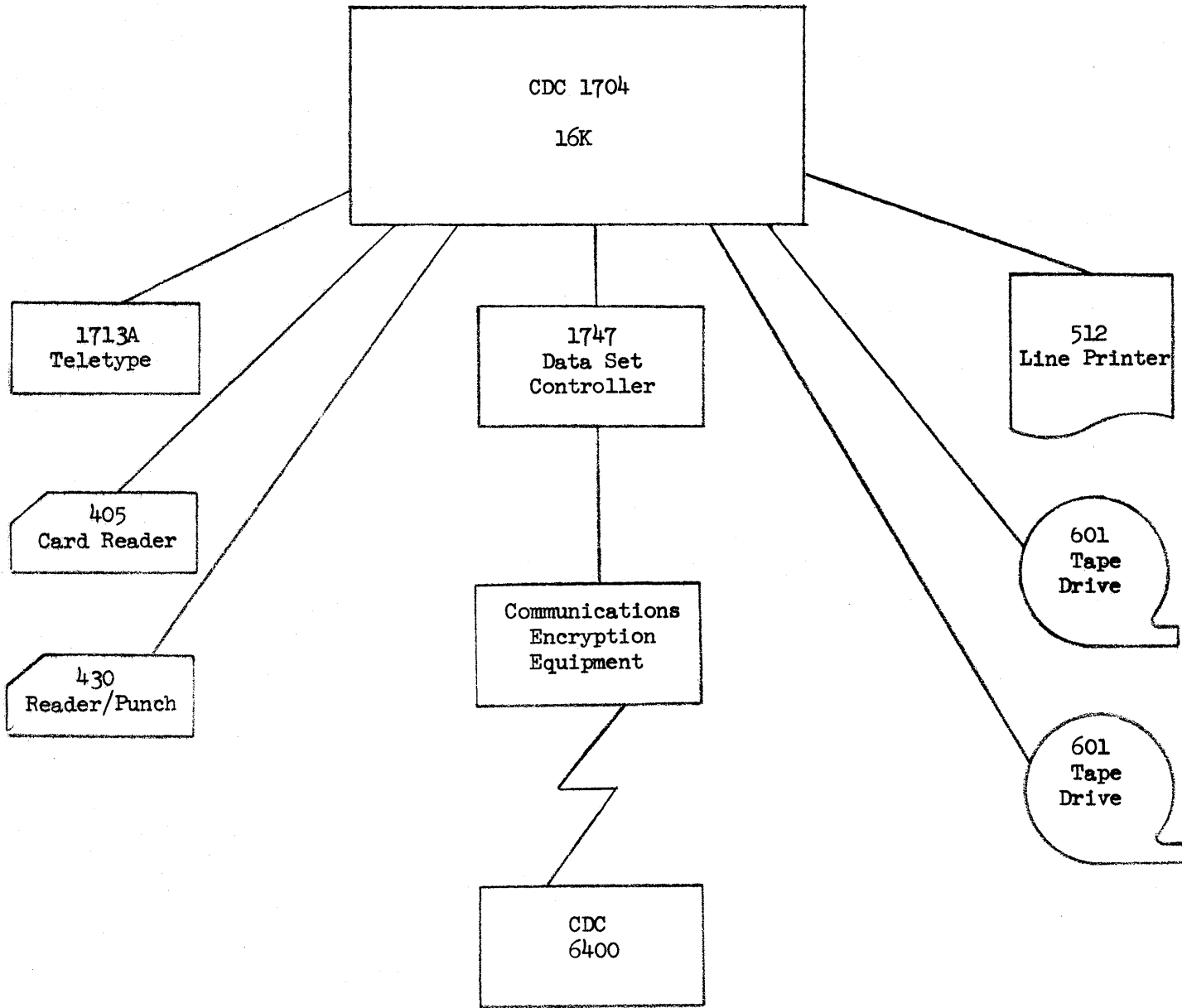
Our 1700 is used mainly as a terminal to a CDC 6400 owned by the AEC,
so many special problems occur due to the specialized software used.

12. FUTURE PLANS: Describe any future implementations to your current configuration:

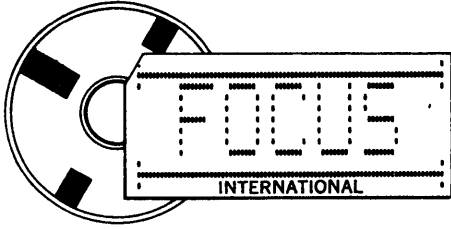
a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



284



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: SANDIA LABORATORIES
LIVERMORE City Installation Name C.A. State
2. FOCUS CONTACT: G.L. WILLIAMS Name SYSTEM PROGRAMMER Title
3. DATE: 7 21 8 1 14 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: SCLL
5. OBJECTIVES OF INSTALLATION: _____

6. HARDWARE (include vendor symbol on non-CDC Equipment): OFFICE OF USER
 a. CENTRAL SITE: AUG 17 1972

(1) Mainframe(s)

Model	Quantity	GROUP/VERSION
<u>6600</u>	<u>1</u>	<u>131</u>
<u>3600</u>	<u>1</u>	<u>64</u>

(2) Console(s)

Model	Quantity
<u>6612</u>	<u>2</u>
<u>3601</u>	<u>1</u>

(3) Tape Transport(s)

Model	Quantity
<u>20</u>	<u>607</u>

(4) Disk(s)

Model	Quantity
<u>6638</u>	<u>1</u>
<u>841</u>	<u>7</u>
<u>814</u>	<u>1</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>3</u>

(6) Line Printer(s)

Model	Quantity
<u>512</u>	<u>1</u>
<u>501</u>	<u>3</u>
<u>IBM 1403</u>	<u>2</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415 CARD PUNCHES	2
CALCOMP 835 PLOTTER	1
250 PLOTTER	1
861 DRUMS	2

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
814 DISK	10/WK	FALTY CIRCLES
861 DRUMS	50/WK	" "

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS ^{3600 - DEUM/SCALE 2.1}

a. Current Operating System 6400 - 1.1.1.3.3 Latest Update 6400 Revision 2 PSR No.

b. Local Modifications (Add additional description if desired, as appendix)

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines: Updated through PSR Summary or Local Modifications:

3600 - COBOL 4.2, FTN 5.5,
COMPASS 5.4, INFOL 1.2 ;
SWT 7

6400 RUN 3.3, FTN
COBOL 3.0, SWT/MRG 3.0, SIS 1.0,
SYMBOL

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent Very Good ____ Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:

		From	To	Day of Week
Preventive Maintenance	3600	5:30 AM	7:30	M-F
	6600	5:30 AM	7:30	M-W-F
Systems Work	3600	AS NEEDED		
	6600	7:30-AM	8:30	M-F
Special Time Allotment				
Production	3600	7:30	2400	M-F
	6600	8:30	-	M-S+
Debugs				

b. Job Scheduling: Describe your job scheduling algorithm

3600 - 1st completed the 10 min. prime shift swing all production
 6600 - Based on time and FL

c. Accounting Method:

Charges based on: $CPU(3600) (CPU + \frac{1}{2}(PPU + IO) 6600)$
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: add an additional 6600
release 3600
 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
Summit Switch (QSE 3338 & 3339)	3
Master Bit Switch (166 printer)	1
Phantom Lockout (162-3)	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
The 854 Disc drives	are very unreliable.	Problems causing rework occur daily (all drives except 1 are pore sen #7000)

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent Very Good Good Fair Poor

Central Site

8. SOFTWARE SYSTEMS

a. Current Operating System SYMON/SCOPE Latest Update 2.1 PSR No. _____
 (our version)

b. Local Modifications (Add additional description if desired, as appendix)
(SCOPE) Extensive correction and improvement of the I/O system.

c. QSS(s) (Quote Special Software)
 (1) _____
 (2) _____
 (3) _____
 (4) _____

d. Compiler and Library Routines :	Updated through PSR Summary or Local Modifications:
<u>COMPASS</u>	<u>local</u>
<u>COBOL</u>	<u>local</u>
<u>FTN</u>	<u>local</u>
<u>INFOL</u>	<u>local</u>
<u>PERT</u>	<u>local</u>
<u>SORT</u>	<u>local</u>

} PSRs are very carefully evaluated before inclusion

e. Current Problems and Comments:
COBOL compiler producer object code which is not completely compatible with the system LOADER INFOL has been a constant headache. We have virtually rewritten large parts of it.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:
 (1) Operating System: I/O

 (2) Compilers and System Routines: I/O

b. In your opinion, CDC's response to your software request(s) has been:
 _____ Excellent _____ Very Good _____ Good _____ Fair X _____ Poor

c. System Stability:
 Mean time between hardware/software failures Software failures continue to happen at a rate of one or two a month, or more.
 Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule: 3800

	SYS	From	To	Day of Week
Preventive Maintenance	A	0800	1000	Mon
		1800	2200	Tue & Thur
		2000	2200	Wed & Fri
XXXXXXXXXX Systems Work	B	0000	0200	Mon
		0000	0400	Tue & Thur
		0300	0500	Wed & Fri
Special Time Allotment				
Production				
Debugs				

b. Job Scheduling: Describe your job scheduling algorithm

first in - first out (priority work excepted)

c. Accounting Method:

Charges based on:

Billing algorithm:

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

Performance of standard CDC software packages has generally been bad.

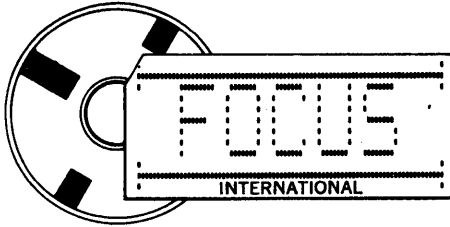
We cannot count on performance as documented (or implied).

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware:

b. Software:

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: California State University, San Francisco
Installation Name
San Francisco California
City State

2. FOCUS CONTACT: David W. Hamaker Programmer II
Name Title

3. DATE: 72 / 9 / 8 4. FOCUS INSTALLATION CODE: SFSC
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: The maintenance of computer resources to provide for campus needs in the areas of instruction, research and administration.

6. HARDWARE (include vendor symbol on non-CDC Equipment): OFFICE OF USER
SEP 12 1972

a. CENTRAL SITE:

(1) Mainframe(s)	<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
	3150	1	32K

(2) Console(s)	<u>Model</u>	<u>Quantity</u>	(3) Tape Transport(s)	<u>Model</u>	<u>Quantity</u>
	3101	1		608	2

(4) Disk(s)	<u>Model</u>	<u>Quantity</u>	(5) Card Reader(s)	<u>Model</u>	<u>Quantity</u>
	854	4		405	1

(6) Line Printer(s)	<u>Model</u>	<u>Quantity</u>	(7) Data Cell(s)	<u>Model</u>	<u>Quantity</u>
	501	1		(none)	

6. a. (8) OSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>Card Punch (model 415)</u>	<u>1</u>
<u>Communications Controller (model 3266)</u>	<u>1</u>
<u>CALCOMP 563 Plotter w/ 470 Tape Drive</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>(We have remote access to several computers via our computer and several teletypes - these remote computers are not considered part of this installation)</u>	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>854</u>	<u>Monthly</u>	<u>Heads misloading</u>
<u>608</u>	<u>Bimonthly</u>	<u>Header & checkword errors</u>
<u>405, 415</u>	<u>Monthly</u>	<u>Tape read/write problems</u>
<u>501</u>	<u>Weekly</u>	<u>Card damage</u>
		<u>Misreading</u>
		<u>Forms Handling Problems</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Std. Latest Update 4.2 PSR No. 254+

b. Local Modifications (Add additional description if desired, as appendix)

<u>Accounting routines</u>	<u>Changes to typeouts and printouts</u>
<u>System assumes "ND" and "NM"</u>	
<u>COBOL overlay scheme</u>	
<u>Operator control via MI command</u>	

c. QSS(s) (Quote Special Software)

- (1) CABLE - A program for RJE to our remote installations.
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

(Standard Software)

Updated through PSR Summary or Local Modifications:

(254+)

e. Current Problems and Comments:

Operating System appears to contain excessive known and unknown "bugs."

Its design is considered poor. Non-standard Compilers hamper teaching.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: Recurrent appearance of new problems.
- (2) Compilers and System Routines: Compilers cannot (in general) generate subscript checking object code. System is highly vulnerable to such errors.

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures estimated 4 hours.

Longest time period between hardware/software failures estimated 2 days.

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>6:00</u>	<u>9:00</u>	<u>Tuesday</u>
	<u>6:00</u>	<u>9:00</u>	<u>Friday</u>
Systems Work			
10% of the remaining time			
Special Time Allotment	<u>9:00</u>	<u>10:00</u>	<u>Daily</u>
Student Runs	<u>13:00</u>	<u>14:00</u>	<u>Daily</u>
(dedicated)	<u>16:00</u>	<u>17:00</u>	<u>Daily</u>
plus 10% of the remaining time			
Production			
50% of the remaining time			
Debugs			
20% of the remaining time			

b. Job Scheduling: Describe your job scheduling algorithm
Set schedule and a mix of Debug, System, Production and Student according to demand.

c. Accounting Method:
 Charges based on: Elementary Cost Accounting.
 Billing algorithm: (same)

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
NO	
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
NO	
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
NO	
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
NO	
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>BCD</u>	<u>1 CADA DOS MESES.</u>	<u>Pierde "lista" y no lo detecta.</u>
<u>MEMORIA</u>	<u>1 CADA MES.</u>	<u>Paridad.</u>
<u>PERFORADORA 415</u>	<u>1 CADA MES.</u>	<u>Alimentación y Perforación incompleta.</u>
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System RTS Latest Update Vers. 1-2 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) MONT-B Special Spooling programa por our 3100.
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: MONT-B is in process of installation.
- (2) Compilers and System Routines: Out of sequence en Sort cuando se lee /graba en reversa.

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good X Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures Una y dos semanas.
Longest time period between hardware/software failures Un mes hardware /un año Software.

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	7	11	Lunes
	14	15	Martes, Jueves y Viernes.
Systems Work			
Special Time Allotment			
Production	11 am	4 am	Lunes-Martes
	9 am	3 am	Martes-Miércoles.
Debugs			1 ó 2 horas diarias.

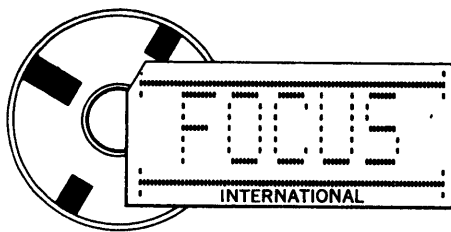
b. Job Scheduling: Describe your job scheduling algorithm
Se determina por el horario y calendario de entrega de resultados,
los cuáles son siempre impresos.

c. Accounting Method:
 Charges based on: _____
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
Se está implantando el método de Contabilidad, de acuerdo a nuestro
Sistema Spooling (MONT-B).

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: NO.
 b. Software: Optimizar Spooling.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Spokane Mining Research Center
Spokane City Washington State
Installation Name
2. FOCUS CONTACT: George Cross Name Systems Analyst Title
3. DATE: 72/08/16 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: SMRC
5. OBJECTIVES OF INSTALLATION: To assist engineering done at center concerning structural designing of mine entry systems, mathematical modeling and data handling and display.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

AUG 17 1972

a. CENTRAL SITE:

(1) Mainframe(s)

GROUP LIAISON
Core (K)

Model	Quantity	Core (K)
3200-A15	1	32000

(2) Console(s)

(3) Tape Transport(s)

Model	Quantity	Model	Quantity
3192-B08	1	601	2
3201-B01	1		

(4) Disk(s)

(5) Card Reader(s)

Model	Quantity	Model	Quantity
854-A12	2	405-A15	1

(6) Line Printer(s)

(7) Data Cell(s)

Model	Quantity	Model	Quantity
501-C12	1		

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
Paper Tape Read/Punch Station	1
Calcomp Drum Plotter	1
3293 - Plotter Controller	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences</u> (Or Rate of Occurrences)	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 4.2 Latest Update June 72 PSR No. 254

b. Local Modifications (Add additional description if desired, as appendix)

Accounting Systems
Binary read on paper tape
Background plot routine

c. QSS(s) (Quote Special Software)

- (1) Calcomp plotting package - General
- (2) Calcomp Contour Package
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>MS Fortran</u>	<u>254</u>
<u>ANSI Fortran</u>	<u>254</u>
<u>MS Cobol</u>	<u>254</u>
<u>ALGOL</u>	<u>254</u>
<u>SIPP, BSIPP, MS SORT,</u>	<u>"</u>
<u>MS Utility, Utility,</u>	<u>"</u>
<u>LISA, Saint</u>	<u>"</u>

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 2 months
Longest time period between hardware/software failures 4 months

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	<u>6:00 a.m.</u> <u>6:00 a.m.</u>	<u>8:00 a.m.</u> <u>10:00 a.m.</u>	<u>Monday & Friday</u> <u>Wednesday</u>
Systems Work		<u>AS needed</u>	
Special Time Allotment	<u>3:00 p.m.</u>	<u>6:00 p.m.</u>	<u>M - F</u> <u>Scheduled Long</u> <u>Jobs.</u>
Production	<u>8:00</u> <u>7:30</u> <u>10:00</u>	<u>3:00</u> <u>3:00</u> <u>3:00</u>	<u>Monday, Friday</u> <u>Tues, Thurs.</u> <u>Wednesday</u>
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

All Jobs less than 1/2 hr are run in order they're
submitted. Over 1/2 hr. are stacked till no short jobs then
run - long programs 2-3 hrs are scheduled in
advance and run in 3:00 p.m. to 6:00 p.m. slot.

c. Accounting Method:

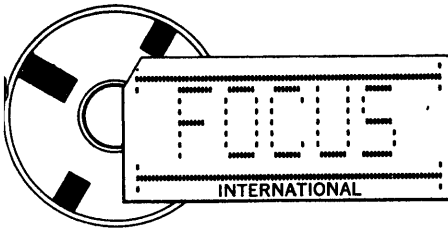
Charges based on: CPU and wall clock time (for plotting)
Billing algorithm: \$90.00/hr. CPU - plus \$40.00/hr. wall clock if plotting

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

- a. Hardware: Dedicated real time channel to accept data
acquisition system's signals.
b. Software: Priority program to handle (a).

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: SOUTHWEST METHODIST UNIVERSITY
Installation Name
DALLAS TEXAS
City State

2. FOCUS CONTACT: J. W. NOYES DIRECTOR, COMPUTING LAB.
Name Title

3. DATE: 74 8 12 4. FOCUS INSTALLATION CODE: SMU
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: EDUCATION AND RESEARCH
OFFICE OF USER
SEP 11 1974

6. HARDWARE (include vendor symbol on non-CDC Equipment): GROUP LIAISON

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>CYBER 72-13</u>	<u>1</u>	<u>48K</u>
<u>CDC 1604</u>	<u>1</u>	<u>32K</u>

(2) Console(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>657</u>	<u>2</u>
<u>659</u>	<u>1</u>
<u>607</u>	<u>8</u>

(4) Disk(s)

Model	Quantity
<u>6638</u>	<u>1</u>
<u>854</u>	<u>3</u>
<u>852</u>	<u>5</u>

(5) Card Reader(s)

Model	Quantity
<u>415</u>	<u>1</u>
<u>088</u>	<u>1</u>

(6) Line Printer(s)

Model	Quantity
<u>501</u>	<u>1</u>
<u>1012</u>	<u>1</u>

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System _____ Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____

- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

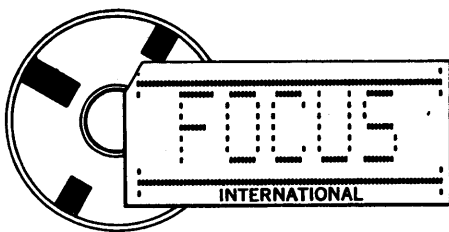
12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

CYBEL TO BE INSTALLED IN DECEMBER, 1972



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: CALIFORNIA STATE UNIV SACRAMENTO
Installation Name
SACRAMENTO CA
City State
2. FOCUS CONTACT: DR. Hovey Reed Director of Institutional Research
Name Title
3. DATE: 721 8 18 4. FOCUS INSTALLATION CODE: SSCE
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: TO PROVIDE INSTRUCTIONAL AND ADMINISTRATIVE SUPPORT TO THE EDUCATIONAL OBJECTIVES OF THE UNIVERSITY.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER
 AUG 25 1972
 GROUP LIAISON

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3150</u>	<u>1</u>	<u>32</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
<u>1164</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>608</u>	<u>4</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
<u>854</u>	<u>4</u>
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
_____	<u>1</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>512</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>3266 COMM. CTRL.</u>	<u>1</u>
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>DISK</u>	<u>12 or 15 times</u>	<u>irrecoverable Disk error in middle of long Job. (we usually change packs and/or drives and rerun).</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Latest Update 4.2 PSR No. 254

b. Local Modifications (Add additional description if desired, as appendix)

time + Date to FLD linking Attached MSJOCCP & Job card
Acctg from Job card In same overlay.
Line limit on JK 5 option
Type Output Suppress on JK 5

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

COBOL
(1) date printed on every page
(2) cobol diagnostics msg deleted
from console.

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 4-5 days
Longest time period between hardware/software failures 5 weeks.

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	6:00 AM 6:00 AM	8:00 AM 8:00 AM	Tues Thurs.
Systems Work	4:00 AM 4:00 AM	8:00 AM 8:00 AM	Wednesday Friday
Special Time Allotment	9:00 1300 1900	10:00 1400 2000	MON - Fri
Production			Usually afternoon & evenings to 10:00 PM.
Debugs			as possible to fill in except for top priority jobs.

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: Elapsed Time
 Billing algorithm: _____

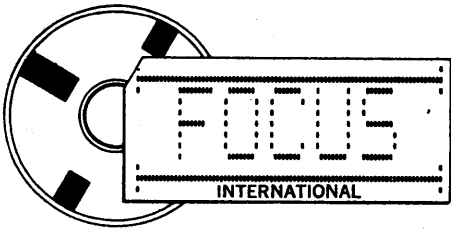
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: 604 TAPES (4) TO REPLACE 608'S

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Statens Vattenfallsverk

Stockholm Installation Name Sweden
City State

2. FOCUS CONTACT: Bengt Rudfeldt

Mr.
Name Title

3. DATE: 72 / 08 / 25

Yr. Mo. Day

4. FOCUS INSTALLATION CODE: SV

5. OBJECTIVES OF INSTALLATION:

Commercial and technical EDP-applications

OFFICE OF USER

AUG 29 1972

GROUP LIAISON

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
CD 3500	1	131 K

(2) Console(s)

Model	Quantity
TY (IBM)	1

(3) Tape Transport(s)

Model	Quantity
CD604	6

(4) Disk(s)

Model	Quantity
CD 841-4	2

(5) Card Reader(s)

Model	Quantity
CD405	1

(6) Line Printer(s)

Model	Quantity
CD 512	2

(7) Data Cell(s)

Model	Quantity
-	-

6. a. (8) OSE(s) (Quote Special Equipment)

	<u>Description</u>	<u>Quantity</u>
Paper Tape reader	Facit PE 1000	1
" " punch	" PE 1500	1
Plotter Calcomp	565	1

(9) Other Devices

	<u>Description</u>	<u>Quantity</u>
Card punch	CD 415	1
Drum	CD 863	1

b. REMOTE SITE(S): None

(1) Computer(s)

	<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

	<u>Description</u>	<u>Quantity</u>
CD731-12	Low speed Batch Terminal	5
TE 308 SH	Olivetti Terminals	9

7. HARDWARE PROBLEMS No complete statistic available

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences</u> (Or Rate of Occurrences)	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER 3.2 Latest Update _____ PSR No. 235+

b. Local Modifications (Add additional description if desired, as appendix)

<u>MASTER NEWS, NEW OCCOUNTING</u>	<u>CTO, AUTOMATIC OPEN OF LPRC</u>
<u>PAGE, TEXT-CARD, JOB CPU-</u>	<u>LIBRARY LOCATE FOR FTNU</u>
<u>REQUEST, TIME ON AND SEQUENCE</u>	_____
<u>NUMBERS ON</u>	_____

c. QSS(s) (Quote Special Software)

- (1) APACE-III
- (2) MARS-III
- (3) _____
- (4) _____

d. Compiler and Library Routines:

		Updated through PSR Summary or Local Modifications:
<u>ALGOL</u>	<u>1.2</u>	<u>235</u>
<u>COBOL</u>	<u>2.4</u>	<u>235</u>
<u>ANSICOBOL</u>	<u>2.1</u>	<u>235+</u>
<u>FORTRAN</u>	<u>3.2</u>	<u>235</u>
<u>ANSIFORTRAN</u>	<u>2.1</u>	<u>235</u>
_____	_____	_____
_____	_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: The degraded version of BUFFER in FTNU
(Compared to FTN) causes a much longer running time for e.g.
APACE.

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

c. System Stability: **No complete statistic available**

Mean time between hardware/software failures _____
 Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	0600 am	0800 am	Monday to Friday
	_____	_____	_____
	_____	_____	_____
Systems Work	0800 am	0100 am	" " "
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____
 Billing algorithm: Yes

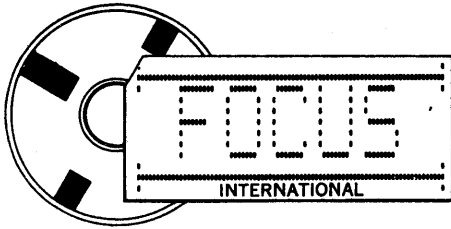
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

 b. Software: MCS-III; MASTER 3.4; MARS-III 2.0

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: TECHNICAL ADVISORS, INC
WAYNE City MI State 48184
Installation Name
2. FOCUS CONTACT: TOM WEYAND Name V. Pres. Title
3. DATE: 721819 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: CAI
5. OBJECTIVES OF INSTALLATION: TIME-SHARING & COMPUTER GRAPHICS FOR LAND SURVEYORS & CIVIL ENGINEERS.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

AUG 11 1972

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	GROUP LIAISON Core (K)
<u>RPC-4000</u>	<u>1</u>	<u>8</u>
<u>VARIAN 620I</u>	<u>2</u>	<u>8 AND 12</u>
IBM 4150	1	12

(2) Console(s)

Model	Quantity
<u>ASR-33</u>	<u>5</u>
<u>ASR-35</u>	<u>3</u>

(3) Tape Transport(s)

Model	Quantity

(4) Disk(s)

Model	Quantity
 	

(5) Card Reader(s)

Model	Quantity
 	

(6) Line Printer(s)

Model	Quantity
<u>DATA PRODUCTS</u>	<u>1</u>

(7) Data Cell(s)

Model	Quantity

6. a. (8) OSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>IBM 1130</u>	<u>7</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>ASR-33</u>	<u>225</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor
NOT USING CDC MAINTENANCE

TAI

8. SOFTWARE SYSTEMS

a. Current Operating System _____ Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

Four horizontal lines for local modifications.

c. QSS(s) (Quote Special Software)

- (1) _____
(2) _____
(3) _____
(4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

Two columns of horizontal lines for compiler and library routines.

e. Current Problems and Comments:

Two horizontal lines for current problems and comments.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor
NOT USING CDC SOFTWARE

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	_____
	_____	_____	_____
Special Time Allotment	NOT REALLY APPLICABLE		
	SINCE OUR OPERATING		
	SYSTEM IS ON NON-		
Production	CDC EQUIPMENT. CDC		
	EQUIPMENT IS USED IN		
Debugs	A MINOR ACCOUNTING		
	PROCEDURE.		

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

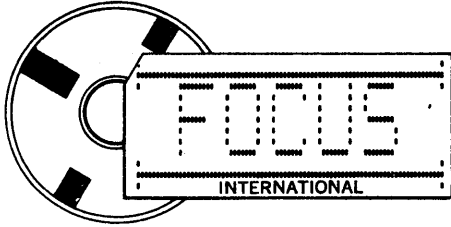
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Teledyne - Geotech
Garland City Texas State
Installation Name

2. FOCUS CONTACT: Bob Fitch Manager, Computer Services
Name Title

3. DATE: 72/08/15 4. FOCUS INSTALLATION CODE: TEDY
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: To provide operations and programming support for all departments within the company

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

~~AUG 18 1972~~

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>CDC 3100</u>	<u>1</u>	<u>32K</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

Model	Quantity
<u>IBM Selectric</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>604</u>	<u>5</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>501</u>	<u>1</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
_____	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>CDC 415 card punch</u>	<u>1</u>
<u>Calcomp 12 inch plotter</u>	<u>1</u>
<u>A to D and D to A equipment</u>	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>Tape Units</u>	<u>2 or 3 times per week</u>	<u>Tape unit fails to disconnect when switching from tape to tape in program. MC often fails to clear the connect for a few minutes.</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

We perform our own maintenance but occasionally use CDC.

8. SOFTWARE SYSTEMS

a. Current Operating System RTS 2.0 Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

Job Accounting Routine

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>FORTAN</u>	_____
<u>COBOL</u>	_____
<u>COMPASS</u>	_____
<u>(all standard CPC)</u>	_____
<u>math & utility</u>	_____
<u> routines</u>	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>8am</u>	<u>10am</u>	
Systems Work			<u>as needed</u>
Special Time Allotment			<u>none</u>
Production	<u>8am</u> <u>5pm</u> <u>5pm</u>	<u>5pm</u> <u>8pm</u> <u>10pm</u>	<u>Monday - Friday</u> <u>Monday</u> <u>wednesday</u> <u>other times as needed.</u>
Debugs			<u>done in relation</u> <u>to production</u>

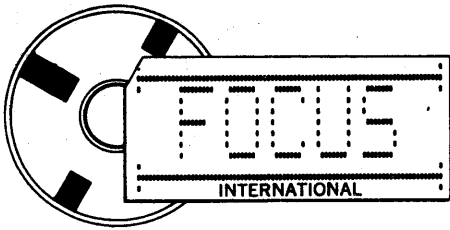
b. Job Scheduling: Describe your job scheduling algorithm
Payroll system has permanent priority
(runs about 3 hours/week). Express runs are
run as needed. Other jobs are run on
first come-first served.

c. Accounting Method:
 Charges based on: Total time job is being run (Sequence end to EOF)
 Billing algorithm: (Rate/hour) * # of hours charge number was used
(billed monthly)

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: Disk files
 b. Software: operating system to handle disk.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: 443 TTS, 443 MAW
Altus AFB OKLA 73521
City Installation Name State
2. FOCUS CONTACT: Sgt W. B. STEVENS Systems Analyst
Name Title
3. DATE: 1 1 1 4. FOCUS INSTALLATION CODE: T T S S
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Provide transition training for flight crews of C-141 and C-5 aircraft.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER
AUG 25 1972

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
924	2	SIN4-16K, SIN5 32K
SEL 840	6	2-44K 4-32K

GROUP LIAISON

(2) Console(s)

Model	Quantity

(3) Tape Transport(s)

Model	Quantity
(SEL) TM 707	2

(4) Disk(s)

Model	Quantity

(5) Card Reader(s)

Model	Quantity

(6) Line Printer(s)

Model	Quantity

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<i>Curtiss-Wright I/O</i>	<i>1</i>
<i>Link - I/O</i>	<i>2</i>
<i>Conduction - I/O</i>	<i>2</i>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences</u> (Or Rate of Occurrences)	<u>Nature of Failure</u>
<i>no specific recurring failures on any CDC equipment.</i>		

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

N/A

8. SOFTWARE SYSTEMS

N/A

a. Current Operating System _____ Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

FORTRAN for SEL 840's

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

N/A

a. Recurring Software Problems:

(1) Operating System: _____

(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

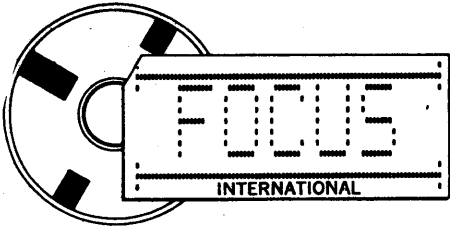
N/A

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures 2 weeks

Longest time period between hardware/software failures 7 months



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Univ. of Arkansas Medical Center

Little Rock Arkansas
City State

2. FOCUS CONTACT: Jerome D. Blackburn Computing Facility Director
Name Title

3. DATE: 72 / 8 / 10 4. FOCUS INSTALLATION CODE: UAMC
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: 1) Provide programming and computing services for the business applications of the Univ. of Ark. Medical Center.
 2) Provide computing services for scientific and research applications of the hospital and other health related agencies. 3) Provide computing services for the Migrant Student Record Transfer System--a national system.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3300</u>	<u>1</u>	<u>81K</u>
_____	_____	_____
_____	_____	_____

OFFICE OF USER

AUG 16 1972

GROUP LIAISON

(2) Console(s)

Model	Quantity
<u>3304</u>	<u>1</u>
_____	_____
_____	_____

(3) Tape Transport(s)

Model	Quantity
<u>657</u>	<u>6</u>
_____	_____
_____	_____

(4) Disk(s)

Model	Quantity
<u>841-5</u>	_____
<u>821-2</u>	_____
_____	_____
_____	_____

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>
<u>512</u>	<u>2</u>
_____	_____
_____	_____

(6) Line Printer(s)

Model	Quantity
<u>512</u>	<u>2</u>
_____	_____
_____	_____

(7) Data Cell(s)

Model	Quantity
<u>None</u>	_____
_____	_____
_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
None	

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
415 Card Punch	1
304 Communications Multiplexor	1
3386/3388 A/D and D/A Converter	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
SC1700	2

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
None	

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
821	1 time/day	drops ready
657	2 per day	parity errors
512	1 time/week	mechanical and electronic

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER Latest Update 3.1 PSR No. 219

b. Local Modifications (Add additional description if desired, as appendix)

very minor

c. QSS(s) (Quote Special Software)

- (1) none
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>ANSI COBOL 2.0</u>	<u>219</u>
<u>MS COBOL</u>	<u>219</u>
<u>ANSI FORTRAN 2.0</u>	<u>243</u>
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 3 CPU hours
Longest time period between hardware/software failures 6 CPU hours

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	6:00 AM	10:00AM	Mon. & Fri.
Systems Work	4:00 PM	5:00 PM	Mon. thru Fri.
Special Time Allotment	unscheduled		
Production	10:00 AM	4:00 PM	Mon. & Fri.
	5:00 PM	8:00 AM	Mon. & Fri.
	8:00 AM	4:00 PM	Tue,Wed.Thurs.
	5:00 PM	8:00 AM	Tue.Wed.Thurs.
Debugs	10:00 AM	11:00 AM	Mon. thru Fri.
	1:00 PM	2:00 PM	Mon. thru Fri.

b. Job Scheduling: Describe your job scheduling algorithm

Production: Sliding priority based on deadline.
 Test: Under 5 min.-run 10:00 to 11:00 AM and 1:00 to 2:00 PM
 Over 5 min.- first in, first out.

c. Accounting Method:

Charges based on: CPU and channel time, job size, tape & disk rental, supplies
 Billing algorithm: CPUXQP+CHXQP+setup+peripherals scheduled

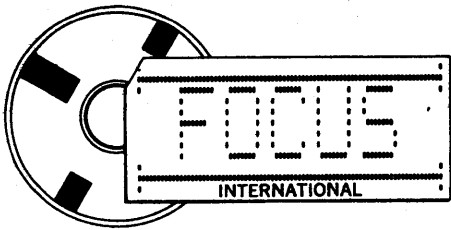
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

None

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: None
 b. Software: MASTER 3.3

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: U.S. Army Land Warfare Laboratory
Installation Name
Building 359 Aberdeen Proving Ground Maryland
City State
2. FOCUS CONTACT: Donald O. Egner Operations Research Analyst
Name Title
3. DATE: 72 8 13 4. FOCUS INSTALLATION CODE: UARO
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: Perform scientific and engineering
type computations as required for associated Army Research
and Development Tasks.

OFFICE OF USER

6. HARDWARE (include vendor symbol on non-CDC Equipment):

SEP 11 1972

a. CENTRAL SITE:

GROUP LIAISON

- (1) Mainframe(s)

Model	Quantity	Core (K)
LGP 21	1	4

- (2) Console(s)

Model	Quantity

- (3) Tape Transport(s)

Model	Quantity
141	1

- (4) Disk(s)

Model	Quantity

- (5) Card Reader(s)

Model	Quantity

- (6) Line Printer(s)

Model	Quantity

- (7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent Very Good Good Fair Poor

8. SOFTWARE SYSTEMS

a. Current Operating System _____ Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

_____	_____
_____	_____
_____	_____
_____	_____

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines : Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Systems Work	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Special Time Allotment	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Production	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
Debugs	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

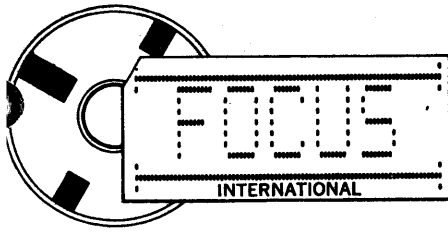
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Union Carbide Corporation Nuclear Division
Installation Name
Oak Ridge City Tennessee State
2. FOCUS CONTACT: R. A. Tannert Name Superintendent of Data Systems Title
3. DATE: 72 / 08 / 22 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: UCND
5. OBJECTIVES OF INSTALLATION: Manufacture of nuclear weapons.

OFFICE OF USER

AUG 31 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment): GROUP LIAISON

a. CENTRAL SITE:

(1) Mainframe(s)

<u>Model</u>	<u>Quantity</u>	<u>Core (K)</u>
3300	1	80

(2) Console(s)

<u>Model</u>	<u>Quantity</u>
3301	1

(3) Tape Transport(s)

<u>Model</u>	<u>Quantity</u>
604	6

(4) Disk(s)

<u>Model</u>	<u>Quantity</u>
854	5

(5) Card Reader(s)

<u>Model</u>	<u>Quantity</u>
405	1

(6) Line Printer(s)

<u>Model</u>	<u>Quantity</u>
512	2

(7) Data Cell(s)

<u>Model</u>	<u>Quantity</u>

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>None.</u>	

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>415 Card Punch</u>	<u>1</u>
<u>3691 Paper Tape Reader/Punch</u>	<u>1</u>
<u>3316 Multiplexer Control</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>None.</u>	

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>Transacters</u>	<u>144</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>604 Tape Drives</u>	<u>1 or more/wk since 12/71</u>	<u>End of file - file size errors</u>
<u>512 Printers</u>	<u>4-5/wk</u>	<u>Print errors</u>
<u>512 Printers</u>	<u>Daily</u>	<u>Failure to print readable 6th copies</u>
<u>604 Tape Drives</u>	<u>4-5/wk</u>	<u>1 Parity Errors</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

173 +

a. Current Operating System MASTER/3.0 Latest Update Selected: June '72 PSR No. Selected thru 211

b. Local Modifications (Add additional description if desired, as appendix)
 *EST - type time of task initiation plus task name to console

- TABLES - Y-12 phase 1 inputs to suit configuration
- OPCOMPAK - code added for Data Collection System
- Terminator, Suspend - code added to clear core after task leaves it
- ULOG - shortened tape logging message to console

c. QSS(s) (Quote Special Software)

- (1) PT3691 - paper tape driver/executive (3691) v/1.0
- (2) On-Line Diagnostics - MSE (disk test) borrowed from MASTER/3.1 also, mag tape, printer tests.
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

- CTA3316 - tables modified for in-house applications
- UCBLABEL - modified label error message to console
- CBL - TABLSIZE = 1 to double table area
- CBLOPENT - bypass mag. tape logging message - not needed
- UCBLOPENT - bypass mag. tape logging message
- SORT, TSRT - increased max. record size to 8191, BDP = 3312A; increased SCMNSIZE

Continued on Page 5.

e. Current Problems and Comments:

Currently in process of installation of MASTER/3.2 system.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: End of input file pointer changed - cards in a job not processed but no error message given: condition cleared by autoloading.
- (2) Compilers and System Routines: EOF file size error: not sure if hardware or software is culprit; problems over a year.

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures 98.4 (last 12 months)
 Longest time period between hardware/software failures 21 days (last 12 months)

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>5 p.m.</u>	<u>7 p.m.</u>	<u>Monday</u>
	<u>5 p.m.</u>	<u>9 p.m.</u>	<u>Thursday</u>
	<u>Peripherals p.m.'ed on-line</u>		
Systems Work	<u>As required - usually Saturday</u>		
Special Time Allotment	<u>None</u>		
Production	<u>All other time</u>		
Debugs	<u>Intermingled with production</u>		

b. Job Scheduling: Describe your job scheduling algorithm
No special algorithm.

c. Accounting Method:
 Charges based on: Overhead to Plant. No billing is done.
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
None

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: None planned
 b. Software: MASTER V/3.2 being prepared for installation.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages. See Page 5 for continuation of 8.d.

8.d. Compiler and Library Routines (continued)

PRGE, TRGE: messages sent to printer sent to console also, as follows:

INTERPHASE RECORD COUNTS DO NOT AGREE
RECD EXTENDS PAST END OF BLOCK

LIBPROC - EOA check on READ in 'READMT' routine added. Without this check abort occurs when EOF = EOA.

COSYTAB - MASTER/3.2 version installed on v/3.0 library.

TABLES, OPNU, OSEG - code added to accommodate the inclusion of 3691 paper tape reader/punch into the system.

Current PSR level of compilers/assemblers:

ANS COBOL/2.0 - PSR 178 + selected thru 203

ANS FORTRAN/2.0 - Release level

COMPASS - PSR 203 + 208*4766

META - PSR 178 + 179*5266

Mass Storage FORTRAN - deleted from library

Mass Storage COBOL - PSR 173 + 187*4880, 181*5283

Current PSR level of Library Routines:

MS SORT - PSR 235

Tape SORT MERGE - PSR 211 + selected thru 235

*FMU - PSR 211

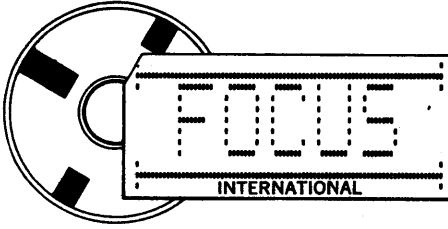
*DEF - PSR 178

GLIB - PSR 203

SYSGEN - PSR 173 + selected thru 203

CUP - PSR 195

COSY - PSR 173



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: University of Manitoba, Computer Dept. for
Installation Name Health Sciences.
Winnipeg City Manitoba State

2. FOCUS CONTACT: D. J. PROTTI Name Assistant Director Title

3. DATE: 72/ 08 / 17 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: UMAN

5. OBJECTIVES OF INSTALLATION: Medical research clinical service system handles
1) on-line, conversational, 2) real-time signal processing
3) local 1700 batch 4) remote 360 batch
for faculties of medicine, and dentistry and five related hospitals.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER
AUG 24 1972

a. CENTRAL SITE:

(1) Mainframe(s)	<u>Model</u>	<u>Quantity</u>	<u>GROUP LIAISON</u> <u>Core (K)</u>
	<u>1700</u>	<u>1</u>	<u>3216</u>
	<u>SC1700</u>	<u>1</u>	<u>3216</u>

(2) Console(s)	<u>Model</u>	<u>Quantity</u>	(3) Tape Transport(s)	<u>Model</u>	<u>Quantity</u>
	<u>1713</u>	<u>1</u>		<u>609</u>	<u>2</u>

(4) Disk(s)	<u>Model</u>	<u>Quantity</u>	(5) Card Reader(s)	<u>Model</u>	<u>Quantity</u>
	<u>854</u>	<u>4</u>		<u>405</u>	<u>1</u>

(6) Line Printer(s)	<u>Model</u>	<u>Quantity</u>	(7) Data Cell(s)	<u>Model</u>	<u>Quantity</u>
	<u>1742</u>	<u>1</u>			

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
Plotter	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
See attached configuration	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
IBM 360/65	1
LINC-8	1

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
Teletypes	16
CRIS	2
Portacom	1
NCR	1

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System 2.1 Latest Update _____ PSR No. 60

b. Local Modifications (Add additional description if desired, as appendix)

Extensive

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

2.0A Fortran Compiler

Updated through PSR Summary or Local Modifications:

e. Current Problems and Comments:

Large portions of the operating system have been modified, therefore an assessment of the performance of system 2.1 is not meaningful.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures Once a day
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	7:30	8:30	Mon, Wed, Fri.
	7:30	11:30	Tues. (1700 only)
	7:30	9:30	Thurs. (SC1700 only)
Systems Work	20:30	08:30	Mon. to Fri.
Special Time Allotment			
Production	08:30	20:30	Mon. to Fri.
	09:00	17:00	Sat.
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm
First come first served with some priority for smaller jobs.

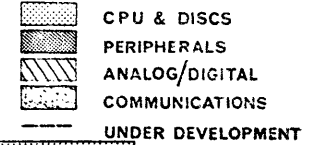
c. Accounting Method:
 Charges based on: Execution time
 Billing algorithm: _____

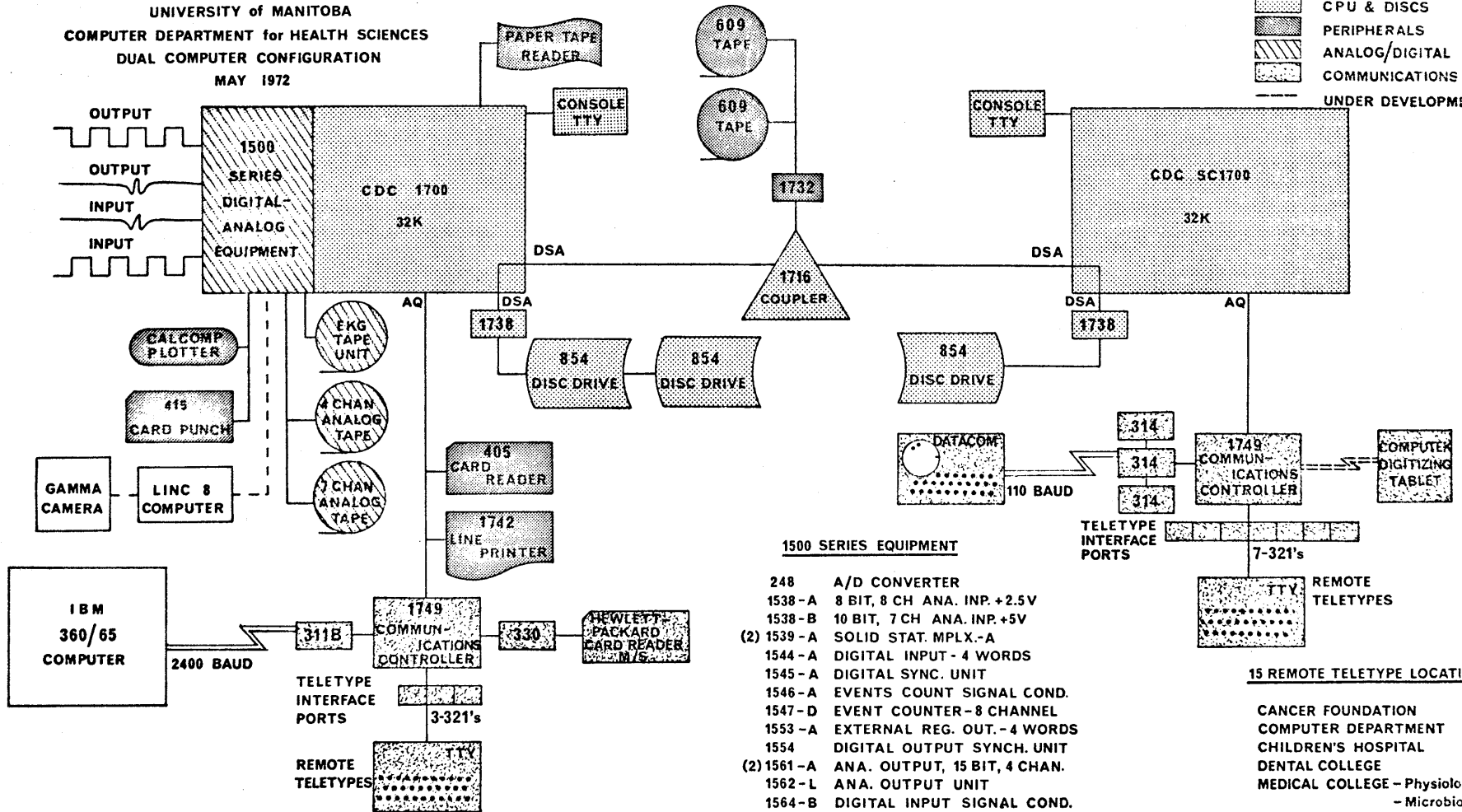
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: PDP-11 AS "CONNECTING" COMPUTER.
 b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

UNIVERSITY of MANITOBA
 COMPUTER DEPARTMENT for HEALTH SCIENCES
 DUAL COMPUTER CONFIGURATION
 MAY 1972

SHADING LEGEND:

 CPU & DISCS
 PERIPHERALS
 ANALOG/DIGITAL
 COMMUNICATIONS
 UNDER DEVELOPMENT



1500 SERIES EQUIPMENT

- 248 A/D CONVERTER
- 1538-A 8 BIT, 8 CH ANA. INP. +2.5V
- 1538-B 10 BIT, 7 CH ANA. INP. +5V
- (2) 1539-A SOLID STAT. MPLX.-A
- 1544-A DIGITAL INPUT- 4 WORDS
- 1545-A DIGITAL SYNC. UNIT
- 1546-A EVENTS COUNT SIGNAL COND.
- 1547-D EVENT COUNTER-8 CHANNEL
- 1553-A EXTERNAL REG. OUT.- 4 WORDS
- 1554 DIGITAL OUTPUT SYNCH. UNIT
- (2) 1561-A ANA. OUTPUT, 15 BIT, 4 CHAN.
- 1562-L ANA. OUTPUT UNIT
- 1564-B DIGITAL INPUT SIGNAL COND.
- 1566-4 D/A CONVERSION UNIT, 15 BIT
- (3) 1571 CHAINING BUFF. CHAN.
- 1572-A PROGRAMMABLE SAMPLE RATE
- 1573 LINE SYNCHRONIZER

15 REMOTE TELETYPE LOCATIONS

- CANCER FOUNDATION
- COMPUTER DEPARTMENT
- CHILDREN'S HOSPITAL
- DENTAL COLLEGE
- MEDICAL COLLEGE - Physiology-3
- Microbiology
- Biochemistry
- PSYCHIATRY ANNEX
- St. BONIFACE HOSPITAL
- WGH - G3, F2, F5 & ICU

LOGIN
HEALTH SCIENCES COMPUTER SYSTEM
TUE 15 AUG 72, PORT 01

JORNO.. 6110

?? RUN BLDGAS

NAME..... J.DOE
DATE OF TEST 15/08/72
TIME OF TEST 1300

ARTERIAL BLOOD
PCO2.. 38.00
PO2... 59.00
PH.... 7.30
TEMP.. 39.00
HBG... 12.00

PATIENT ON VENTILATOR? YES

EXPIRED GASES? YES
PECO2. 14.00
PEO2.. 240.00

MIXED VENOUS BLOOD TAKEN? YES
PCO2.. 33.00
PO2... 42.00
PH.... 7.44

TEMPERATURE CORRECTED VALUES
ARTERIAL VENOUS DIFF
PCO2.. 41 36
PO2... 68 48
PH.... 7.28 7.42

HCO3 18.3 21.9
O2SAT 91.2 84.5 6.7
O2CON 14.8 13.7 1.1

CCPO2 1.6
AADO2 144.5
EST. SHUNT 61%

VD/VT 0.63

WARNING.THE FOLLOWING RESULTS ARE STILL EXPERIMENTAL.

ARTERIAL OXYGENATION IS MODERATELY REDUCED.

BASE EXCESS -6.8

VENTILATION IS ADEQUATE. A METABOLIC ACIDOSIS EXISTS.

RU FINISHED? YES
PLEASE LOGOUT
BLDGAS USED FOR 00.04 HRS

?? LOGOUT
LOGGED OUT

LOGIN
HEALTH SCIENCES COMPUTER SYSTEM
TUE 15 AUG 72, PORT 01

JOBNO.. 7017

?? RUN CALCPK
CALCPK IN

*TYF

$BSA = ((WT * 0.45359 * 2.2046) ** 0.425) * ((HT * 2.5399 * 0.3937) ** 0.725) * 0.00718$

WT = 100
HT = 150
BSA = 1.92210 # 1

WT = 120
HT = 157
BSA = 2.14678 # 2

WT = 67
HT = 172
BSA = 1.79039 # 3

WT = 75
HT = 143
BSA = 1.64296 # 4

WT = 77
HT = 167
BSA = 1.85925 # 5

WT = \$\$

CALCPK OUT
CALCPK USED FOR 00.06 HRS

?? LOGOUT
LOGGED OUT

LOGIN

JBNO? 1234

PROG? ST31
ST31 IN

INFO.. 3

-THIS IS AN EXAMPLE OF PROGRAM ST31 (SIMPLE LINEAR REGRESSION).
-ALL AVAILABLE OPTIONS WERE USED (EXCEPT TRANSFORMATIONS).
-SELECTION 2 ON 1 WAS USED.

TRAN.. N

DATA..

4.6 87.1
5.1 93.1
4.8 89.8
4.4 91.4
5.9 99.5
4.7 92.1
5.1 95.5
5.2 99.3
4.9 93.4
5.1 94.4/

N = 10

X	MEAN	SD
1	4.980	0.413
2	93.560	3.882

SELECTION... 2 1

R = 0.818
RSQ = 0.670

2 ON 1

INTERCEPT = 55.264
B = 7.690
SD ESTIMATE = 2.366
SDB = 1.909
T = 4.028

revised 09/71, May 1, 1972

OP1.. Y

31.7

** ANALYSIS OF VARIANCE **

SOURCE	DF	SS	MS	F
REGRESSION	1	90.829	90.829	16.227
DEVIATIONS	8	44.780	5.597	
TOTAL	9	135.609		

OP2.. Y

NO.	OBSERVED	EXPECTED	ADJUSTED	RESIDUAL
1	87.100	90.638	90.022	-3.538
2	93.100	94.483	92.177	-1.383
3	89.800	92.176	91.184	-2.376
4	91.400	89.100	95.860	2.300
5	99.500	100.635	92.425	-1.135
6	92.100	91.407	94.253	0.693
7	95.500	94.483	94.577	1.017
8	99.300	95.252	97.608	4.048
9	93.400	92.945	94.015	0.455
10	94.400	94.483	93.477	-0.083

OP3.. Y
THET T.. 2.306

X-VALUES..

5.3 5.4 5.5 5.6 5.7/

*** CONFIDENCE LIMITS ***

X	MEAN		SINGLE VALUE	
	LOW	UPP	LOW	UPP
1	93.793	98.248	90.128	101.914
2	94.261	99.319	90.776	102.803
3	94.692	100.425	91.396	103.722
4	95.099	101.557	91.988	104.667
5	95.488	102.705	92.555	105.638

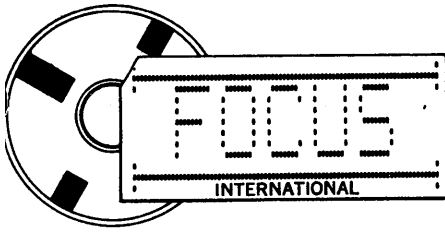
OP3.. N

SELECTION... \$

RU FINISHED.. N

INFO.. 4

- THIS IS AN EXAMPLE OF PROGRAM ST31 (SIMPLE LINEAR REGRESSION).
- ALL AVAILABLE OPTIONS WERE USED (INCLUDING TRANSFORMATIONS).
- TRANSFORMATION 1 WAS USED ON VARIABLE 2.
- SELECTION 2 ON 1 WAS USED.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Hybrid Computer Laboratory
Installation Name
University of Minnesota Minneapolis, Minn
City State

2. FOCUS CONTACT: _____
Name Title

3. DATE: 72 / 8 / 29 4. FOCUS INSTALLATION CODE: UMHY
Yr. Mo. Day Name Title

5. OBJECTIVES OF INSTALLATION: General Purpose
Programming for University Community

6. HARDWARE (include vendor symbol on non-CDC Equipment): OFFICE OF USER
AUG 30 1972

a. CENTRAL SITE:

(1) Mainframe(s)

GROUP LIAISON

Model	Quantity	Core (K)
CDC 170C	1	32
CDC 160	1	4

(2) Console(s)

(3) Tape Transport(s)

Model	Quantity	Model	Quantity
		601	2
		1607	4

(4) Disk(s)

(5) Card Reader(s)

Model	Quantity	Model	Quantity
854	2	1729-2	1

(6) Line Printer(s)

(7) Data Cell(s)

Model	Quantity	Model	Quantity
166	1		
1612	1		

6. a. (8) OSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
160 A Channel Adapter	1
1747 DSC	1
1744/274 Digigraphics	1
1706 BDC	2
DAC + ADC converter equip.	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
1729-2	2 / data every 200 cards	hangs in mid-read
601	constantly	can't read what it has written
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System 2.1 Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

lots

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

FTN 2.0B

Updated through PSR Summary or Local Modifications:

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures 2 days
Longest time period between hardware/software failures 4 days

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	8	12	360d
Systems Work			at random
Special Time Allotment			at random
Production			at random
Debugs			at random

b. Job Scheduling: Describe your job scheduling algorithm

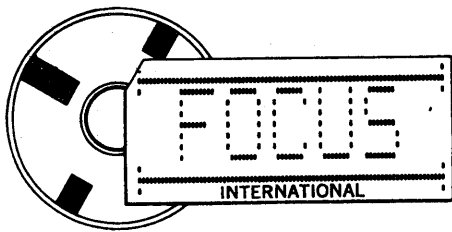
 None

c. Accounting Method:
 Charges based on: timecards
 Billing algorithm: charged per hour according to equipment used

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: 2 more 601's; connection w/ 6600
 b. Software: program around hardware problems

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: UNIVERSITE DE MONTREAL
Installation Name
MONTREAL City QUEBEC, CANADA State
2. FOCUS CONTACT: J. Baudot Name director Title
3. DATE: 72 / 08 / 08 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: UMTL
5. OBJECTIVES OF INSTALLATION: Graphics - Batch Jobs - Teaching and Research -

OFFICE OF USER

AUG 14 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
1704	1	28

(2) Console(s)

Model	Quantity
1711	1

(3) Tape Transport(s)

Model	Quantity
601	1

(4) Disk(s)

Model	Quantity
854	1

(5) Card Reader(s)

Model	Quantity
405	1

(6) Line Printer(s)

Model	Quantity
1742	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
QSE 5089 Sylvania Data Tablet Controller	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
1744 DIGIGRAPHIC CONTROLLER	1
274 DIGIGRAPHIC CONSOLE	

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
854	ONCE A YEAR	COUPLE OF PARTS
		WORN OUT
1744/274	ONCE A YEAR	COUPLE OF BAD CARDS

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 2.1 Latest Update JUNE 72 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

MSOS 2.1 "
see FOCUS-4 Proceedings, page 347.

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>FTN 2.0B</u>	<u>PSR + LOCAL MODIFICATIONS</u>
<u>ASSEM</u>	<u>PSR + LOCAL MODIFICATIONS</u>
<u>DCP</u>	<u>LOCAL MODIFICATIONS</u>
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
 - (2) Compilers and System Routines: _____
- } NO REAL PROBLEM

b. In your opinion, CDC's response to your software request(s) has been: NOT APPLICABLE
____ Excellent ____ Very Good ____ Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures 3 months
Longest time period between hardware/software failures 6 months

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	07.00	09.00	
Systems Work			whenever needed
Special Time Allotment			on request
Production	09.00	20.00	monday to friday
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: BLOCK TIME. TIME IN AND OUT ENTERED BY OPERATOR

Billing algorithm: RECORDS INTEGRATED TO CDC 5600 ACCOUNTING SYSTEM

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

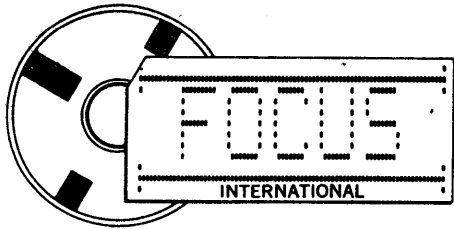
12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: CDC 1774 (8K) - 713 CONSOLES - 1-854 DISK

1 - 601 MAGNETIC TAPE

b. Software: EXTENTION OF MSOS 2.1 " FOR DUAL 1700 SYSTEM

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: USN PACIFIC MISSILE RANGE
Installation Name
GEOPHYSICS DIVISION, CODE 3251-3, PT. MUGO, CALIF. 93042
City State
2. FOCUS CONTACT: LINDSEY LINDELL PHYSICIST
Name Title
3. DATE: 72 / 08 / 17 4. FOCUS INSTALLATION CODE: UPMR
Yr. Mo. Day
5. OBJECTIVES OF INSTALLATION: GEOPHYSICS APPLICATIONS -
ENVIRONMENTAL DATA PROCESSING

OFFICE OF USER

AUG 23 1972

6. HARDWARE (include vendor symbol on non-CDC Equipment):

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3104 SER#64</u>	<u>1</u>	<u>16K</u>

(2) Console(s)

Model	Quantity
<u>3101</u>	<u>1</u>

(3) Tape Transport(s)

Model	Quantity
<u>604</u>	<u>2</u>

(4) Disk(s)

Model	Quantity
<u>854</u>	<u>2</u>

(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>

(6) Line Printer(s)

Model	Quantity
<u>505</u>	<u>1</u>

(7) Data Cell(s)

Model	Quantity
<u>NONE</u>	

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>NONE</u>	

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
<u>10018 (FLOATING POINT HARDWARE)</u>	<u>1</u>
<u>3293 (PLOTTER - CALCOMP 565)</u>	<u>1</u>
<u>3691 (PAPER TAPE)</u>	<u>1</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>NONE</u>	

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
<u>NONE</u>	

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
<u>NONE OF SIGNIFICANCE</u>		

b. In your opinion, CDC's response to ^{ANY} ~~your~~ hardware request(s) has been:

_____ Excellent Very Good _____ Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 3.0 Latest Update JULY '69 PSR No. ?

b. Local Modifications (Add additional description if desired, as appendix)

NONE OF SIGNIFICANCE

c. QSS(s) (Quote Special Software)

- (1) NONE
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

<u>FORTRAN</u>	} <u>all LOCAL MODIFICATION</u>
<u>COMPASS</u>	
<u>COBOL</u>	
<u>SORT/MERGE</u>	
<u>PERT/TIME</u>	
<u>ALGOL</u>	

e. Current Problems and Comments:

MINOR

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

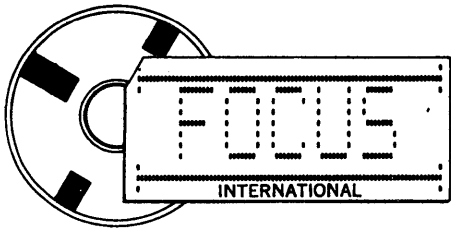
- (1) Operating System: MINOR
- (2) Compilers and System Routines: 4

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent Very Good ____ Good ____ Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

✓1. CONTRIBUTING ORGANIZATION: Wilkes-Barre Automatic Data Processing Center
Installation Name
Wilkes-Barre Pennsylvania
City State

✓2. FOCUS CONTACT: Mr. L. E. Broz Chief
Name Title
Software Development Division

✓3. DATE: 72 / 08 / 14 4. FOCUS INSTALLATION CODE: UPOP
Yr. Mo. Day

✓5. OBJECTIVES OF INSTALLATION: Service the 68 largest post offices in Postal Regions of New York, Eastern and Southern areas, for applications such as Time and Attendance, Workload Recording System, Van and Highway Control of Mail Flow and various other applications requiring real-time batch processing.

OFFICE OF USER

✓6. HARDWARE (include vendor symbol on non-CDC Equipment):

AUG 25 1972

a. CENTRAL SITE:

GROUP LIAISON

✓(1) Mainframe(s)

Model	Quantity	Core (K)
<u>3300</u>	<u>2</u>	<u>128K & 80K</u>

✓(2) Console(s)

Model	Quantity
<u>3301</u>	<u>2</u>

✓(3) Tape Transport(s)

Model	Quantity
<u>607</u>	<u>12</u>
<u>604</u>	<u>4</u>

✓(4) Disk(s)

Model	Quantity
<u>814</u>	<u>3</u>
<u>854</u>	<u>2</u>

✓(5) Card Reader(s)

Model	Quantity
<u>405</u>	<u>1</u>

✓(6) Line Printer(s)

Model	Quantity
<u>501</u>	<u>1</u>

✓(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
1604 Mainframe - Gates ISR into DC current address registers on search/move instruction.	2
311-1238-A/3216-1239-A - Together allows interrupt information to be stored in control word. Prevents loss of interrupts.	

(9) Other Devices N/A

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S): N/A

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
3302 Memory Storage	Often	Parity Errors
607/604 Tape Transport	Often	Bad writes, bad reads, compatability problems
814 Disk File	Often	Disk Errors, head crash
3312 BDP Module	Infrequently	Shifting of data
3311 Multi Module	Infrequently	Shirting of data

✓ b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

✓ 8. SOFTWARE SYSTEMS

a. Current Operating System Master 3.2 Latest Update 7/1/72 PSR No. 264

✓ b. Local Modifications (Add additional description if desired, as appendix)

- Display time @ start of and end of job.
- Auto Tape search under jump key option.
- Display cobol restart dump # on CTO.
- Display ch eq unit up when put up by op.
- Display a (...) and time when operator depresses manual interrupt.

✓ c. QSS(s) (Quote Special Software)

- (1) None
- (2) _____
- (3) _____
- (4) _____

✓ d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

<u>Compass</u>	<u>PSR 264</u>
<u>USASI Cobol</u>	_____
<u>Mass storage sort</u>	_____
<u>Tape sort</u>	_____
_____	_____
_____	_____

✓ e. Current Problems and Comments:

We are experiencing difficulty with TSORT restart.

9. SOFTWARE PROBLEMS

✓ a. Recurring Software Problems:

- ✓ (1) Operating System: None
- ✓ (2) Compilers and System Routines: Restart on TSORT

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>0900</u>	<u>1150</u>	<u>Monday, Wednesday, Friday</u>
	<u>0900</u>	<u>1100</u>	<u>Tuesday, Thursday</u>
	<u>1300</u>	<u>1500</u>	<u>Monday, Wednesday, Thurs, Friday</u>
	<u>1400</u>	<u>1600</u>	<u>Saturday</u>
Systems Work	<u>Ten Hours per Week.</u>		
Special Time Allotment			
Production	<u>Twelve to Sixteen hours per day.</u>		
Debugs	<u>Eight hours per week.</u>		

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____
 Billing algorithm: _____

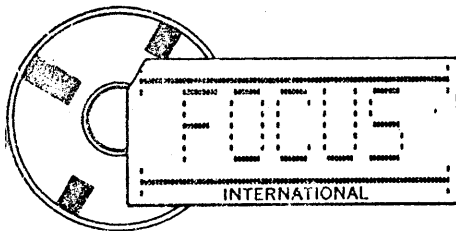
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: UNITED STATES COAST GUARD
 WASHINGTON Installation Name D. C.
 City State

2. FOCUS CONTACT: MR. FRANK J. MAURO ASST DIVISION CHIEF, CDS
 Name Title

3. DATE: 72 / 09 / 01 4. FOCUS INSTALLATION CODE: USCG
 Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: PROVIDE BUSINESS AND SCIENTIFIC APPLICATIONS SUPPORT, THROUGH CENTRAL SITE, REMOTE BATCH AND REAL TIME PROCESSING, TO ALL ORGANIZATIONAL LEVELS OF THE COAST GUARD.

6. HARDWARE (include vendor symbol on non-CDC Equipment):
 a. CENTRAL SITE: GROUP OF USER
SEP 19 1972

(1) Mainframe(s)

Model	Quantity	GROUP LIAISON Core (K)
3304-2	1	147
3304-2	1	81
IBM 1410	1	40

(2) Console(s)

Model	Quantity
3301	2
IBM 1415	1

(3) Tape Transport(s)

Model	Quantity
607	10
609	1
IBM 2729	1
IBM 7330	1

(4) Disk(s)

Model	Quantity
841-6	2
IBM 1301	1

(5) Card Reader(s)

Model	Quantity
405	1
IBM 1402	1

(6) Line Printer(s)

Model	Quantity
501	2
IBM 1403	1

(7) Data Cell(s)

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
QSE 5443 COMMUNICATIONS INTERFACE	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
304-1 COMMUNICATIONS MULTIPLEXORS	2
415 CARD PUNCH	1
8909G TEST BOARD DRAWER	1
3316-1 MULTIPLEXOR CONTROLLER	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
200 UT - SPEEDEX	8
(TO BE INCREASED TO A TOTAL OF 13 200UT TERMINALS THROUGHOUT THE U. S. BY APR 1973)	

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
PRINTER	DAILY	SKIPS PAGES
MEMORY	3/MONTH	PARITY/ERRORS
CARD READER	DAILY	CARD JAMS
200 UT (SPEEDEX)	VARIES FREQUENTLY	PRIMARILY PUNCH, PRINTER & READER JAMS

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good _____ Good X Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MASTER 3.0 Latest Update _____ PSR No. 191+

b. Local Modifications (Add additional description if desired, as appendix)

MODIFICATIONS TO RESPOND E/I AND MARS TO ALLOW SUPPORT OF
A 200 UT WITH CARD PUNCH (SPEDEX TERMINAL).

c. QSS(s) (Quote Special Software)

- (1) PROVIDED TO INTERFACE WITH TELETYPE COMMUNICATIONS NETWORK
- (2) AND 3300.
- (3) _____
- (4) _____

d. Compiler and Library Routines:

Updated through PSR Summary or Local Modifications:

COBOL	211+
FORTRAN	186
META	151
RESPOND E/I	191+
MARS	275

e. Current Problems and Comments:

AT TIMES TASKS WILL NOT TERMINATE ALTHOUGH THE SYSTEM GIVES
A JOB DESTRUCT MESSAGE. IT IS EXPECTED THAT INSTALLATION
OF MASTER 3.3 WILL CORRECT THIS PROBLEM.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: LOSS OF HARDWARE INTERRUPTS CAUSING MASTER TO
ENTER IDLE STATE. SYSTEM SUSPENSION AT TIMES DOES NOT
- (2) Compilers and System Routines: ALLOW SUSPENDED JOBS TO TERMINATE PROPERLY.
THIS NECESSITATES REINITIALIZING THE SYSTEM.

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good X Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
 Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	1600	1830	MON, THUR (OFF LINE SYS)
	0530	0730	TUES, FRI (ON LINE SYS)
Systems Work			ON REQUEST
Special Time Allotment			ON REQUEST
Production	0001	2400	7 DAYS
Debugs			DO NOT DEBUG FROM CONSOLE

b. Job Scheduling: Describe your job scheduling algorithm
ONLINE - FIRST-IN-FIRST-OUT (FIFO) BY JOB CLASS
OFFLINE - FIFO BY JOB CLASS WITH HUMAN SCHEDULER INTERVENTION

c. Accounting Method:
 Charges based on: NONE
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:
RESPONSE TIME TO HARDWARE AND SOFTWARE PROBLEMS COULD BE IMPROVED.

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: PLAN TO ADD 49K of CORE MEMORY AND UPDATE 841-6's TO 841-8's
 b. Software: PLAN TO INSTALL MASTER 3.3 AND IMPLEMENT A DIAL-BACK CAPABILITY.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
#431 - 10 lines-per-inch printing device	1

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
CDC 415 Card Punch	1

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS Latest Update 4.2 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines:

COSY, LISA, MS FORTRAN, MSOS
UTILITY, SFP, ALGOL, COMPASS,
MS COBOL(BCD), MS SORT, PERT
COST, TAPE SORT MERGE, BSIPP,
ERROR RECOVERY, MSIO, PERT TIME,
SIPP, USASI FORTRAN, USASI
COBOL

Updated through PSR Summary or Local Modifications:

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

____ Excellent ____ Very Good ____ Good X Fair ____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	0600	0800	Mon - Fri
Systems Work	As needed		
Special Time Allotment			
Production	1400	0130	Mon - Fri
Debugs	0800	1400	Mon - Fri

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

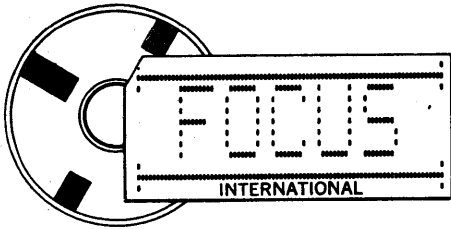
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: College of Business Administration, Univ. of Texas at Austin
Austin Texas
City Installation Name State

2. FOCUS CONTACT: Richard S. Barr Asst. Director, CBA Computer Center
Name Title

3. DATE: 72 / 08 / 07 4. FOCUS INSTALLATION CODE: UTAB
Yr. Mo. Day Title

5. OBJECTIVES OF INSTALLATION: Provide computational services, including prepared software, for use in classes and faculty research projects for the College of Business Administration, UT Austin

6. HARDWARE (include vendor symbol on non-CDC Equipment): OFFICE OF USER
AUG 10 1972

a. CENTRAL SITE:

(1) Mainframe(s) GROUP LIAISON

Model	Quantity	Core (K)
<u>3100</u>	<u>1</u>	<u>16</u>

(2) Console(s) Quantity

Model	Quantity
<u>Desk</u>	<u>1</u>

(3) Tape Transport(s) Quantity

Model	Quantity
<u>603</u>	<u>4</u>

(4) Disk(s) Quantity

Model	Quantity
<u>854</u>	<u>2</u>

(5) Card Reader(s) Quantity

Model	Quantity
<u>405</u>	<u>1</u>

(6) Line Printer(s) Quantity

Model	Quantity
<u>501</u>	<u>1</u>

(7) Data Cell(s) Quantity

Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(9) Other Devices

<u>Description</u>	<u>Quantity</u>
Data set controller for interface with 6600/3100 modem	1
_____	_____
_____	_____

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
old 601 mag tape drives	bi-weekly	drive incompatibility, pe's
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

b. In your opinion, CDC's response to your hardware request(s) has been:

_____ Excellent _____ Very Good X Good _____ Fair _____ Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 3.0 Latest Update _____ PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

One-card file allocation/subsequent release
One-card file open, load, run
Accounting system
Minor restructuring of MSOS overlays

c. QSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

MS FORTRAN
MS COBOL
ALGOL
RG
COMPASS

e. Current Problems and Comments:

Lack of any support for software

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

- (1) Operating System: _____
- (2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair X _____ Poor

c. System Stability:

Mean time between hardware/software failures _____
Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:

	From	To	Day of Week
Preventive Maintenance	12 M	0800	Wed
Systems Work			
Special Time Allotment			
Production			
Debugs			

b. Job Scheduling: Describe your job scheduling algorithm

c. Accounting Method:

Charges based on: _____

Billing algorithm: _____

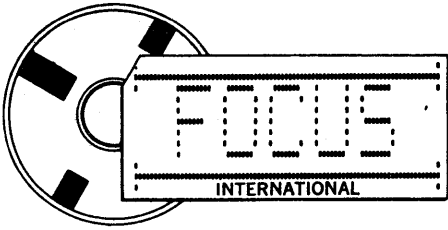
11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:

a. Hardware: _____

b. Software: _____

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Veterans Administration DPC
Installation Name
ST. Paul Minnesota
City State

2. FOCUS CONTACT: _____
Name Title

3. DATE: 72 8 10 4. FOCUS INSTALLATION CODE: VAD
Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: (1) Provide Computer monitoring of patients in Intensive Care Units and operating suites and print patient reports
 (2) Support research projects in varied medical areas.
 (3) Screening of patients for admission.

6. HARDWARE (include vendor symbol on non-CDC Equipment): OFFICE OF USER
AUG 21 1972

a. CENTRAL SITE:

(1) Mainframe(s) GROUP LIAISON

Model	Quantity	Core (K)
<u>CDC 3300</u>	<u>1</u>	<u>32</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)	(3) Tape Transport(s)		
Model	Quantity	Model	Quantity
<u>CDC 3301</u>	<u>1</u>	<u>604</u>	<u>2</u>
_____	_____	_____	_____
_____	_____	_____	_____

(4) Disk(s)	(5) Card Reader(s)		
Model	Quantity	Model	Quantity
<u>854</u>	<u>4</u>	<u>405</u>	<u>1</u>
_____	_____	_____	_____
_____	_____	_____	_____

(6) Line Printer(s)	(7) Data Cell(s)		
Model	Quantity	Model	Quantity
<u>501</u>	<u>1</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS 4.2 Latest Update 8/1/72 PSR No.
MEDLAB3 7/31/72

b. Local Modifications (Add additional description if desired, as appendix)
All modifications local for MEDLAB3

c. OSS(s) (Quote Special Software)
(1)
(2)
(3)
(4)

d. Compiler and Library Routines : Updated through PSR Summary or Local Modifications:

e. Current Problems and Comments:
MEDLAB3 Operating System is not CDC supported
CDC maintains MSOS 4.2 which is used infrequently

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:
(1) Operating System:

(2) Compilers and System Routines:

b. In your opinion, CDC's response to your software request(s) has been:
 Excellent Very Good Good Fair Poor

c. System Stability:
Mean time between hardware/software failures
Longest time period between hardware/software failures

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance	<u>4:30PM</u>	<u>5:30PM</u>	<u>M-F (Schedule is flexible) Varies from 1-5 Hours per week</u>
Systems Work			<u>As time is available</u>
Special Time Allotment			
Production	<u>Midnight</u> <u>5:30PM</u>	<u>4:30PM</u> <u>Midnight</u>	<u>7 days a week</u>
Debugs			<u>On-line or as time is available</u>

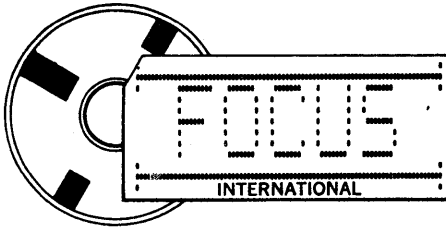
b. Job Scheduling: Describe your job scheduling algorithm
Preventive maintenance and testing is performed when time is available. Intensive Care Monitoring of Patients is priority 1.

c. Accounting Method:
 Charges based on: No charges
 Billing algorithm:

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: Replace the 304 Communications Multiplexor with a 364 Communications Multiplexor. An additional 854 Disk Drive.
 b. Software: Refinement of the MEDLAB3 operating system.

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Ventura County Public Works
Installation Name
Ventura City County State

2. FOCUS CONTACT: Vernon P. Jones Name Deputy County Surveyor Title

3. DATE: 8/7/72 Yr. Mo. Day 4. FOCUS INSTALLATION CODE: VCPW

5. OBJECTIVES OF INSTALLATION: Perform Calculations for Civil Engineering & Land Surveying.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER

AUG 10 1972

a. CENTRAL SITE:

GROUP LIAISON

(1) Mainframe(s)

Core (K)

Model	Quantity	Core (K)
L.G.P. 21	1	4K

(2) Console(s)

(3) Tape Transport(s)

Model	Quantity	Model	Quantity
		141	1

(4) Disk(s)

(5) Card Reader(s)

Model	Quantity	Model	Quantity

(6) Line Printer(s)

(7) Data Cell(s)

Model	Quantity	Model	Quantity

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>
<u>Cal Comp Plotter</u>	<u>1</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>
<u>IBM 360-40</u>	<u>1</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System _____ Latest Update 1971 PSR No. _____

b. Local Modifications (Add additional description if desired, as appendix)

Programs have been modified to operate Plotter

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

e. Current Problems and Comments:

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: _____

(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good _____ Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures _____

Longest time period between hardware/software failures _____

10. OPERATIONS

a. Schedule:	From	To	Day of Week
Preventive Maintenance			
	<i>No</i>		
Systems Work		<i>Formal</i>	
			<i>Schedule</i>
Special Time Allotment			
Production			
Debugs			

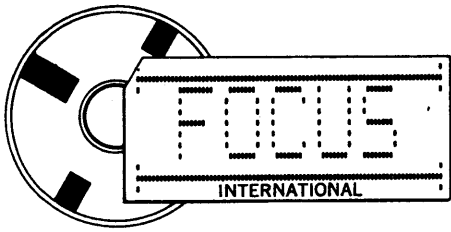
b. Job Scheduling: Describe your job scheduling algorithm
1st In - 1st Out

c. Accounting Method:
 Charges based on: \$7 per hour + labor charges
 Billing algorithm: _____

11. SPECIAL PROBLEMS: Describe any special problems that have not been accounted for by the above categories:

12. FUTURE PLANS: Describe any future implementations to your current configuration:
 a. Hardware: Remote Terminal To IBM 360 (or 370)
in 2-3 years
 b. Software: none

13. ADDITIONAL COMMENTS: For Additional Comments and/or System Organization Chart(s), append additional numbered pages.



- 8 INSTALLATION REPORTS

INTERNATIONAL FORUM OF CONTROL DATA USERS

1. CONTRIBUTING ORGANIZATION: Workmen's Compensation Board of Alberta
 Installation Name
Edmonton City Alberta, Canada State Prov

2. FOCUS CONTACT: _____ Name _____ Title _____

3. DATE: 72 / 08 / 22 4. FOCUS INSTALLATION CODE: WCBA
 Yr. Mo. Day

5. OBJECTIVES OF INSTALLATION: To be used for record keeping and analysis to improve procedures for levying assessments and collecting from employers, and for preparing payments to injured workmen. To provide statistics for accident prevention studies and programs.

6. HARDWARE (include vendor symbol on non-CDC Equipment):

OFFICE OF USER
 AUG 29 1972

a. CENTRAL SITE:

(1) Mainframe(s)

GROUP LIAISON

Model	Quantity	Core (K)
<u>3100</u>	<u>1</u>	<u>32K</u>
_____	_____	_____
_____	_____	_____

(2) Console(s)

(3) Tape Transport(s)

Model	Quantity	Model	Quantity
<u>3101</u>	<u>1</u>	<u>608</u>	<u>2</u>
_____	_____	_____	_____
_____	_____	_____	_____

(4) Disk(s)

(5) Card Reader(s)

Model	Quantity	Model	Quantity
<u>854</u>	<u>5</u>	<u>405</u>	<u>1</u>
_____	_____	_____	_____
_____	_____	_____	_____

(6) Line Printer(s)

(7) Data Cell(s)

Model	Quantity	Model	Quantity
<u>501</u>	<u>1</u>	<u>-</u>	<u>-</u>
_____	_____	_____	_____
_____	_____	_____	_____

6. a. (8) QSE(s) (Quote Special Equipment)

<u>Description</u>	<u>Quantity</u>

(9) Other Devices

<u>Description</u>	<u>Quantity</u>

b. REMOTE SITE(S):

(1) Computer(s)

<u>Model</u>	<u>Quantity</u>

(2) Other Remote Devices

<u>Description</u>	<u>Quantity</u>

7. HARDWARE PROBLEMS

a. RECURRING HARDWARE PROBLEMS:

<u>Device</u>	<u>No. of Occurrences (Or Rate of Occurrences)</u>	<u>Nature of Failure</u>
Console	15-20 per month	Combined characters

b. In your opinion, CDC's response to your hardware request(s) has been:

Excellent
 Very Good
 Good
 Fair
 Poor

8. SOFTWARE SYSTEMS

a. Current Operating System MSOS-V4.2 Latest Update _____ PSR No. 201+SELECTED

b. Local Modifications (Add additional description if desired, as appendix)

Refer to page _____
#5 _____

c. OSS(s) (Quote Special Software)

- (1) _____
- (2) _____
- (3) _____
- (4) _____

d. Compiler and Library Routines :

Updated through PSR Summary or Local Modifications:

MSCOBOL	both
COMPASS	PSR
FORTRAN	PSR
MSSORT	both
LISA	PSR
MSOS UTILITY	PSR

e. Current Problems and Comments:

Improper handling of card reader feed failure at CUP 254.

9. SOFTWARE PROBLEMS

a. Recurring Software Problems:

(1) Operating System: Buffered typewriter (Customer mod) loses messages.

(2) Compilers and System Routines: _____

b. In your opinion, CDC's response to your software request(s) has been:

_____ Excellent _____ Very Good Good _____ Fair _____ Poor

c. System Stability:

Mean time between hardware/software failures Weekly

Longest time period between hardware/software failures 3 weeks ?

LOCAL MODIFICATIONS

1. Validate Sequence and Job cards used at WCB.
2. Accounting records.
3. Standard stock alignment.
4. Remove elapsed time from console.
5. Removed Endscope from printer.
6. Removed standard unit reassignment at Endscope.
7. Removed printer (501) line skip after Sequence.
8. Buffered typewriter.
9. Check IDFILE and LABELFILE entries.
10. Open AUXLIB when Sequence card read.
11. Open system scratch files when test pack on.
12. Return Alphanumeric date when date entered at Autoload.
13. Display read parity (tape) block on console and accept block.
14. Eliminate duplicate Accounting records with multiple Endscofes.
15. System to recognize "CDC 3150" as Source or Object computer in COBOL.

22/08/72

NRL	-	U.S. Naval Research Laboratory	237
NSB	-	Norges Statsbaner	241
NSI	-	Northrop Services, Inc.	245
NSMB	-	The Netherlands Ship Model Basin	250
NSRC	-	Naval Ship Research and Development Center	254
NYED	-	New York State Education Department	260
OSU	-	Oregon State University	264
PCCK	-	Pennwalt Corporation	268
RBK	-	Regneanlegget Blindern-Kjeller	272
RDLA	-	Research, Development and Laboratory Automation	276
REEC	-	Reynolds Electrical and Engineering Co., Inc.	280
SCLL	-	Sandia Laboratories - Livermore	285
SDCS	-	System Development Corporation	289
SFSC	-	California State University, San Francisco	293
SLC	-	Seguros La Comercial, S. A.	297
SMRC	-	Spokane Mining Research Center	301
SMU	-	Southern Methodist University	305
SSCE	-	California State University, Sacramento	309
SV	-	Statens Vattenfallsverk	313
TAI	-	Technical Advisors, Inc.	317
TEDY	-	Teledyne - Geotech	321
TTSS	-	Altus AFB, 443 TTS, 443 MAW	325
UAMC	-	University of Arkansas Medical Center	329
UARO	-	US Army Land Warfare Laboratory	333
UCND	-	Union Carbide Corporation Nuclear Division	337
UMAN	-	University of Manitoba, Computer Dept.	342
UMHY	-	Hybrid Computer Laboratory - University of Minnesota	351
UMTL	-	Universite De Montreal	355
UPMR	-	USN Pacific Missile Range	359
UPOP	-	Wilkes-Barre Automatic Data Processing Center	363
USCG	-	United States Coast Guard	367
USFM	-	USDA, Forest Service, Region 1	371
UTAB	-	College of Business Administration, University of Texas at Austin	375
VAD	-	Veterans Administration St. Paul, Minnesota	379
VCPW	-	Ventura County Public Works	383
WCBA	-	Workmen's Compensation Board of Alberta Canada	387