MAR 72

DIGITAL
SOFTWARE
NEWS

FOR THE

PDP-8 & PDP-12

DIGITAL EQUIPMENT CORPORATION □ MAYNARD, MASSACHUSETTS

PDP-8/12 DIGITAL SOFTWARE NEWS

MARCH 1972

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NEW AND REVISED SOFTWARE

SOFTWARE PROBLEMS

Digital Software News for the PDP-8 & PDP-12 is designed to
provide users of PDP-8 and PDP-12 software with up to date
information on software problems, programming notes, and
new and revised software. Each article, other than announcements
and documentation corrections, is coded sequentially by system
program in the lower right corner for ease in maintaining a
quick reference file. The original material for such a file
is supplied in the Software Performance Summary for the PDP-8
& PDP-12. This publication which is placed in each basic
software kit, is a collection of all current information on
known software problems, patches, and programming notes. As
new versions correct software problems and obsolete patches,
and reprinted manuals include programming notes and manual
corrections, new articles in the Digital Software News will
announce the revised software and specify by code which article
should be removed from your Software Performance Summary file.
Articles may also be replaced when new information becomes
available; such as, procedure to circumvent a problem may
replace the original report of the problem. All articles in the
Digital Software News which should be added to your file will
be appropriately coded.

Any questions or problems on the articles contained in these
publications or concerning the use of Digital's software should
be reported to the Software Specialist or Sales Engineer at
your nearest Digital Office.

Additional copies of the current Software Performance Summary
and updated issues of the PDP-8 and PDP-12 software price
lists are available at no charge upon request from the Program
Library. As with usual orders for software, the Program
Library will accept orders received directly from U.S. customers.
All other customer orders must be routed through the nearest
Digital Representative.

PDP-8/12 NEW AND REVISED SOFTWARE

 The prices below apply to U.S. customers only. All others
 should consult their DEC field office for applicable charges
 and for placing their order.
PDP-8/E Teletype and KL8 Asynchronous Data Control Tests

MAINDEC-8E-D2AC

This program has been revised to correct the following problem.
The previous version (Maindec-8E-D2AB) could not test the
KL8EG (150/2400) option without patching.

Customers may order this software for the applicable fee:

           Paper Tape Binary   MAINDEC-8E-D2AC-PB $ 5.00
           Document   MAINDEC-8E-D2AC-D $10.00

TD8-E DECtape Diagnostic

MAINDEC-8E-D3AB-

A routine was added to this program at location 21ØØ to search
and find all block numbers.

Customers may order this software for the applicable fee:

           Paper Tape Binary   MAINDEC-8E-D3AB-PB1 $5.00
           Paper Tape Binary   MAINDEC-8E-D3AB-PB2 $5.00
           Document   MAINDEC-8E-D3AB-D $8.00

DECWRITER (LA3Ø) Control/Exerciser Test

MAINDEC-8E-D2FB

This program was revised to add diagnostic capabilities for the LA3ØS.

Customers may order this software for the applicable fee:

           Paper Tape Binary   MAINDEC-8E-D2FB-PB $5.00
           Document   MAINDEC-8E-D2FB-PB $7.00

SMALL COMPUTER HANDBOOK

Documentation Addition

The user should be aware that when using a PDP-8/e with KE-8E-EAE the mode-changing instruction SWAB causes a transfer of the AC to the MQ and clears the AC.

This is not documented in the Small Computer Handbook 1972.

FOCAL 1969 (DEC-08-AJAE)

Note to users of FOCAL

To read data tapes on the TTY reader, use the following patch
to remove the interrupts:

LOCATION	FROM	TO
63	2676	1354
64	2666	2414
2732	6001	5336
2762	6046	7000

To allow use of the L command while the interrupt is off, the
following patch should also be made:

LOCATION	FROM	TO
7522	1016	5325

Note: These patches disable high-speed readers unless the following
        patch is also made:

LOCATION	FROM	TO
6324	1037	6011
6325	7700	7410

LAB-8 BASIC AVERAGER

Patch to correct problem with control R

Note this patch is not applicable to the LAB8/e

When using a LAB-8 and the programs Basic Averager (DEC-LB-U21B-PB)
and Basic Averager Control Tape (DEC-LB-T21A-PB), the user may
encounter the following problem. Sampling one channel and doing
a single sweep signal average, will produce the proper display.
However, adding to it with a control R (↑R) may produce a stair
step pattern on the scope instead of the new averaged signal.
The following patch eliminates this problem:

```
        6617/ 4620        JMS   I   .+1
        6620/ 0200          200

        200/   0             0
        201/ 3161         DCA 161
        202/ 3160         DCA 160
        203/ 6335         XRIN  XRCL
        204/ 7200            CLA
        205/ 2200         ISZ  200
        206/ 5600         JMP   I   200
```

LAB8/e ADVANCED AVERAGER

Patch included in revision

The LAB8/e Advanced Averager program needs the following
patches to prevent it from randomly crashing after the
compiler phase Section I.

    After Section I is loaded:

        LOCATION   SHOULD BE

            162   Ø
            175   Ø

This has been included in a new revision which is available
from the Program Library.

Customers may order this software for the applicable fee:

        Paper Tape Binary   DEC-LB-U6lB-PB $5.00
        Paper Tape Binary   DEC-LB-U63B-PB1 $5.00
        Paper Tape Binary   DEC-LB-U63B-PB2 $5.00
        Paper Tape Binary   DEC-LB-U63B-PB3 $5.00
        Paper Tape Binary   DEC-LB-U63B-PB4 $5.00

These prices apply to U.S. customers only. All others should
consult their DEC field office for applicable charges and for
placing their order.

TSS/8 BASIC V4

Changing the number of columns in the LPRINT command
_____

1) The following patch to BASIC V4 will enable the LPRINT
    command to handle any number of line printer columns.
    The maximum number of characters that will appear on
    a single line is specified at location 1375 in the patch.
    Any attempt to write more characters than this on a single
    line will result in wraparound to the next line.

    The patch is:

            .LOAD BASIC 14157 4ØØ 6226

    At Location   Deposit   Comment

    11Ø4   4771

    1114   1361

    1361   1517
    1362   22Ø5
    1363   774Ø
    1364   ØØØØ
    1365   1774
    1366   3Ø14
    1367   1375
    137Ø   3774
    1371   1Ø14
    1372   3375
    1373   5516
    1374   251Ø
    1375   nnnn   -number of line printer
                                            columns (7660 for 80, 7574 for
                                            132)

    4233   5777

    4377   1365

    4771   1411
    4772   16Ø5
    4773   4Ø24
    4774   1717
    4775   4Ø14
    4776   1716
    4777   Ø7ØØ

THEN:
            .SAVE BASIC 14157 4ØØ 6226

                                                    TSS/8 BASIC 1