```
 _ _ _ _ _ _ _
| | | | | | | |                          Level of        Page 1
| | | | | | | |                          Urgency         of   5
|d|i|g|i|t|a|l|
|_|_|_|_|_|_|_|          FCO             [ I ]
```

FIELD CHANGE ORDER   Number KA410-AA-I001

Applicability

MicroVAX 2000 systems experiencing the symptoms as described below.

Problem/Symptoms

MicroVAX 2000 systems which utilize the SLU (DZ) ports in applications
which require data transmission on multiple lines at high speeds may
experience the loss of data synchronization with the result being seen
on a terminal or console as garbled characters. (Continued on Page 2)

Quick Check

Please reference Page 2 for the Quick Check details.

Compatibility/Prerequisite FCO	Est. Time to Install
None	1.5 hrs.

Special Tools or Test Equipment

1.) Field Service tool kit. 2.) ESD kit (DEC p/n 29-26246-00)

FCO Parts Information

Order by FCO Kit #	Quantity	Part Number	Description
EQ-01556-01	1	70-24268-01	MicroVAX 2000 CPU module
	1	FA-04866-01	MicroVAX 2000 FCO Document
FA-04866-01	1	FA-04866-01	MicroVAX 2000 FCO Document

Approvals

CSSE Engineer Rick Gelotti	F.S. Product Safety Robert Brister	F.S. Logistics Carol Sarasin
Responsible CSSE Mgr Elisa Toledo	F.S. Microfiche Libraries VAXDOC EP-FSVDC-LB	Affected Population 600
ESD&P Micropublishing		Initial Kitting

Diane MacDonald		30	
Revision		Hardcopy Publication	
A		600	
FCO Release Date		Parts Availability	
30 October 1989		October, 1989	

EN-01095-12-REVB (548)

Problem/Symptoms (Continued from Page 1)

The system will require a power cycle reboot to correct the situation
and return use of the terminal and/or console. Reducing the baud
rate has lessened the frequency at which the problem may occur.
(See Note below)

Quick Check (Continued from Page 1)

STEP 1:

Check the version of the YEDRIVER.EXE file by doing ANALYZE/RMS.
The CREATION DATE must be 21-MAR-1988 or later. Any revision prior
to this must be updated. **IMPORTANT** Proceed to STEP 2 only if
STEP 1 has not corrected the problem.

STEP 2:

MicroVAX 2000 CPU module (p/n 70-24268-01) at revision F1 or higher.
There should be a sticker on the non-component side of the module
depicting the 70 class part number and the module revision.

```
******************************************************************
*                        ** IMPORTANT **                         *
*                                                                *
* Approximately 80% of previous instances of this problem have been *
* corrected using a revised version of the YEDRIVER.EXE file. This  *
* revised driver is included as part of version 5.0 release of VMS. *
* For prior versions of this driver as applicable to VMS versions   *
* 4.6 and 4.7 contact either the Atlanta or Colorado CSC.  If a      *
* system is exhibiting these symptoms and running a version of VMS  *
* prior to version 5.0 then CSSE requires the installation of the   *
* revised driver as an attempt to correct the situation.  This      *
* driver is located in the SYS$SYSTEM directory and a system reboot *
```

```
* must be performed after copying the new driver into this          *
* directory in order to load the new executable image.              *
*********************************************************************


   *********************************************************************
   *                        ** CAUTION **                             *
   *                                                                  *
   *   The modules contained within the system box are extremely      *
   *   sensitive to electrostatic discharge.  Use of the ESD kit      *
   *   as mentioned in the Special Tools section is required and      *
   *   precautions are to be followed to minimize the possibility     *
   *   of PCB and/or component damage.                                *
   *********************************************************************
```

Installation Procedures:

1.   Turn the system power switch off and disconnect all cables and
     loopback connectors from the rear of the system box.

2.   Place the system box on its left side and remove the DEC423
     converter from the rear of the system box.

3.   On the bottom of the system box slide the skid plate up and
     remove.

4.   Remove the two screws securing the bottom cover on the
     expansion adapter.

5.   Place the system box on its rear bezel with the front bezel up
     and remove the four screws securing the system box cover.

6.   Lift/slide the cover from the system box assembly.

7.   Return the system to the horizontal position with the front of
     the system facing you and remove the five screws securing the
     CPU/shield assembly.

     NOTE Ensure all cables and loopbacks are removed from rear
     of system prior to this next step.

8.   Lift the CPU/shield assembly from the front and rest it on the
     rear of the system.

9. Hold the shield with one hand and disconnect the DC power cable
    and the drive interconnect cable(s) from the system module with
    the other hand.

10. Disconnect the communications interconnect cable from the
    option if present.

11. Lift the CPU/shield assembly from the main chassis and place on
    the antistatic mat.

12. Observing static precautions, remove the two screws which
    secure the paper insulator to the shield assembly and place the
    insulator on the anti-static mat.

13. Remove the phillips head screw attaching the system module to
    the shield assembly.

14. Disconnect the DESVA interconnect cables (2) from the DESVA
    option if installed.

15. Remove the system module assembly from the shield and place it
    beside the shield.

16. Disconnect the battery cable from the system module.

    ** WARNING** Disconnecting the battery cable from the system
    module destroys all NVR memory (ie. time of day, restart params).

17. Remove the memory module from the system module.

18. Remove the communications option module from the system module
    if present.

19. (If necessary) Remove the two DESVA cables from the system
    module and install them onto the new system module.

*** IMPORTANT ***   - STEPS 20, 21 -   *** IMPORTANT ***

20. Remove the Network ID ROM from the old system module and SWAP
    it with the one located on the new system module verifying the
    correct orientation of pin 1 (notched) during re-installation.

21. Inspect the new system module for the correct setting of the
    SYSTEM TYPE select jumper <W6>. The jumper should be connecting
    pins 2 & 3 or the two pins farthest from the Ethernet BNC connector.

22. Re-assemble the CPU/shield assembly and re-install into the
    system box by reversing steps 1 through 20. Ensure the connection
    of all cables.

23. Power up the system and verify a successful pass of the power-up
    diagnostics. A message may be displayed such as:

    ? E   0040   0000.0005

    This message indicates that the system clock has not been set.

24. Reset the NVR Default Boot Device and Default Recovery Action
    Flag by entering T 51 and T 53 respectively at the console prompt.

25. Run the System Exerciser diagnostic by entering T 0 at the
    console prompt. (Ex. >>>T 0)

```
 _ _ _ _ _ _ _          |        FCO    KA410-AA-I001
| | | | | | | |         |
|d|i|g|i|t|a|l|         |        PAGE  5  OF  5
|_|_|_|_|_|_|_|         |
                        |
_____|_____
```

                        LARS INFORMATION

CATEGORY I   USA   GIA   EUROPE

Activity -
(a)Contract and Warranty   W   U   Y
   Hardware Segment Code   111
   Non Contract/Non Warranty   F   F   F

(b)RTD/Off-site Agreement   F
   Product Line   01

(c)In DEC (contract)   K

DEC Option   KA410-AA   KA410-AA   KA410-AA
Type of Call   M   M   M
Action Taken   D   D   I
Fail Area-Module-FCO-Comments KA410-AA-I001   KA410-AA-I001   KA410-AA-I001
Material Used   EQ-01556-01   EQ-01556-01   EQ-01556-01

(a) Warranty Optimum, Warranty Standard and Warranty Basic (on-site)

Agreements.

    (b) RTD= Return to Digital or Off-site Agreements; If Field Engineer
        On-site, use Activity Code "F".

\^ KA410
\\KA410
\\KA410-AA
\\GELOTTI
\\1989
\\OCT
\\FCO_DOCS