_ FCO 62XMX-I003, Inst of DWMVA requires 6000-2XX CPU upgrade

DIGITAL FCO					CATE []	EGORY]	PAGE OF	1 5	
 FIELD CHANGE	ORDER				N	IUMBER: 6	52XMX-1003		
 APPLICABILIT a minimum pa existing sys support this 	Y: Upg rt rev tem. at th	rade appl ision of Also, ens e SDU. Tř	icable 60 "AL" ONLY sure a spa his FCO in	00-2x WHEN re mod corpo	x syste ADDING dule re rates F	em CPU mo G a DWMVA ev "AL" i SCO #T201	odules (T20 A option to s availabl 1-TW010.	11-00) an e to	to
PROBLEM & SY modules to be 	MPTOM: upgra	Installa ded to a	ation of t new minim	he DWI um pai	MVA opt rt revi	ion requ sion of	ires 6000- "AL".	2XX CPU	Ţ
SOLUTION: Up DWMVA add-on	grade optio	applicabl n. Use mi	e 6000-2X nimum mod	X CPU lule pa	module art rev	es upon i Vision "A	nstallatio AL" or high	n of th er.	ie
QUICK CHECK: 23-303E9-00	For m and RO	odule rev M locatio	7 "AL" ROM on E8 shou	I locat Ild be	tion E1 23-302	6 should 2E9-00.	l be marked		
 PRE/CO-REQUI 	SITE F	CO: N/A						MTTI .5/MOD	HRS DULE
 TOOL/TEST EQ 	UIPMEN	T:						- 1	
 			FCO PAR	TS IN	FORMATI	ION			
FCO KIT NO.	FCO KIT NO. DESCRIPTION OF CONTENTS EQ KIT VARIATIO			ION Y					
EQ-01630-01 FA-04965-01	(1) (1)	T2011-00 FA-04965-	Module Mi -01 FCO Do	n Rev "AL"					
 	I		FCO CHARG	ING II	NFORMAT	TION	I		
 WARRANTY/C	ONTRAC	T		NONW	ARRANTY	/NONCONT	TRACT		
 ON-SITE	OF	 F-SITE	ON-SIT	Έ	OFF	-SITE	-SITE MATERIAL ONLY		7
 TRAVEL/ EQ INSTALL KIT 	 INSTA 	EQ LL KIT 		EQ KIT	 INSTAI 	 _L KIT 	ORDER-ADMI PKG,SHIPPI	N,HANDI NG & EÇ	JING) KIT
 CSSE Jim Vermette 		CS LOGIS Len Pell	STICS erin			CS PROI Robert	OUCT SAFETY Brister		
CSSE MANAGER Ric Grogan		This Document is published on multiple media including Hardcopy, Customer Services		FCO RELEASE DATE					
MICROMEDIA Diane MacDon	ald	Microfic Customer	che Librar Services	ies, CD-RO) DM and	FCO REVISION A			

	MDS Microfiche Libraries.	
POPULATION 35		PARTS AVAILABILITY
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**************************************	**************************************	**************************************
INST2	ALLATION AND TEST PROCEDURE F	OR 62XMX-1003
1. Shut down the	e VAX/VMS operating system:	
Example of a	shutdown:	
\$ @sys\$syste	em:shutdown	
SHUTDOWN	Perform an Orderly System Sh	utdown on node PEEVEE
How many min Reason for a Do you want Do you want Should an au When will th Shutdown opt REMOVE_NOD CLUSTER_SHU REBOOT_CHEO SAVE_FEEDBA	nutes until final shutdown [0 shutdown [Standalone]: <cr> to spin down the disk volume to invoke the site-specific utomatic system reboot be per he system be rebooted [later] tions (enter as a comma-separ E Remaining nodes in th UTDOWN Entire cluster is shu CK Check existence of ba ACK Save AUTOGEN feedback</cr>]: <cr> s [NO]?<cr> shutdown procedure [YES]?<cr> formed [NO]?<cr> :<cr> ated list): e cluster should adjust quorum tting down sic system files information from this boot</cr></cr></cr></cr></cr>
Shutdown opt	tions [NONE]: <cr></cr>	
VMS will is: Finally, VM:	sue several messages indicati: S will issue:	ng it is shutting down.
SYSTEM SHUT	DOWN COMPLETE - USE CONSOLE T	O HALT SYSTEM
2 At this poin	nt porform a ControlAD to bal	t the primary processor

2. At this point perform a Control^P to halt the primary processor. The console will print the following, but the numeric values may not match the example: ?02 External halt (CTRL/P, break, or external halt)
PC = 801C7F92

3. Enter INITIALIZE at the >>> prompt. This will reset the whole system and force all processors into console mode.

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- 4. Examine the console map to determine the location of each processor in your system. Record the location of each processor and which processor is the dedicated primary.
- 5. Enter the SHOW BOOT command, and record the saved boot specifications. Here is a sample of the command output:

>>> SHOW BOOT
DEFAULT /XMI:E /BI:4 DU3D
R54A /R5:0000001/XMI:E/BI:4 DU4A
DIAG /R5:00000010/XMI:E/BI:4 DU15

If the SHOW BOOT command does not produce information it means that there hasn't been a SAVE BOOT.

6. Enter the <CTRL/3>SHOW SYSTEM SERIAL command, and record the system serial number. Here is a sample of the command output:

>>> \$^?SHOW SYSTEM SERIAL System serial number: xxxxxxx

- Use the SETUP feature on your terminal, and ensure the baud rate of the terminal is set to 1200 baud. This is necessary due to the T2011-00 module within the FCO kit has the baud rate set to 1200 as the default.
- 8. Turn the upper key switch on the system control panel fully counterclockwise. This shuts off the output of the battery backup unit if present. To ensure "Total Off", pull the power circuit breaker on the H405 AC power controller located on the lower right side at the back of the system. Unplug the system.
- 9. Use ALL ESD safety precautions to prevent DOA modules in upgrade kit.

	*	CAUTION	*
	*		*
	*	All VAX modules contain electrostatic discharge	*
	*	sensitive devices (ESDS). The use of an antistatic	*
	*	wrist strap attached to the cabinet is essential when	*
	*	handling modules.	*
	* * * * * * *	* * * * * * * * * * * * * * * * * * * *	· *
		_ FCO 62XMX-1003	
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10. Unscrew the XMI cardcage cover assembly and remove the cover.

- 11. Remove the T2011-00 module targeted for upgrade from the cardcage using all ESD procedures. Check the revision of the module taken from the machine. If the module is an "AL" re-install it in the same slot and proceed to next step. If the module revision is below revision "AL" install module from EQ-01630-01 and repeat this step for all T2011-00 modules installed within the XMI backplane.
- 12. Re-install the XMI cardcage cover assembly and tighten retaining screw.
- 13. Install the new DWMVA option in accordance with the Installation Guide which comes with the option.
- 14. Record the original position of the lower key switch. Turn lower key switch on the system console panel to the UPDATE Position.
- 15. Plug in the system. Apply power to the system by pushing the Circuit Breaker in to the "ON" position. Power up the system by turning the upper key switch on the system control panel clockwise to the "ENABLE" position.
- 16. Enter the <CTRL/3>SET SYSTEM SERIAL command, using the serial number you recorded in Step 6. Here is a sample output from the command:

* * NOTE 1 * * On VT100 series terminals replace <CTRL/3> with * * <ESC> in the steps below. * * >>> \$^?SET SYSTEM SERIAL System Serial Number>>> AG83701988 Serial number read as: AG83701988

Update EEPROM? (Y or N) >>> Y ?73 System serial number updated.

If your system contains more than one processor, entering the SET BOOT command causes the boot specification to be copied to all processors, so this command does not need to be repeated on each processor.

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18. Return the lower front panel key switch to the HALT position.

19. Boot the Diagnostic Supervisor (VDS) ELSAA.EXE

20. Load and run the following diagnostics:

ELKAX	Functionality
ELKMP	Multiprocessor Exerciser
EVKAQ	Basic Instructions Exerciser Part I
EVKAR	Basic Instructions Exerciser Part II
EVKAS	Floating Point Instructions Exerciser Part I
EVKAT	Floating Point Instructions Exerciser Part II
EVKAU	Privileged Architecture Exerciser Part I
EVKAV	Privileged Architecture Exerciser Part II

- 21. Return the lower key switch to the position recorded in step 14.
- 22. Bring up the operating system.

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- 23. Update Site Management Guide to reflect this FCO.
- 24. Report FCO activity on LARS form in the "Module/fail area/FCO".

LARS EXAMPLE

CATEGORY	
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GIA

(a)Contract and Warranty	W	U	Y
(b)IN-DEC Contract	K		
Hardware Segment Code	031	111	
Non Contract/Non Warranty	F	F	F
(c)RTD/Off-site Agreement	F		
Product Line	031	031	
DEC Option	62XMX	62XMX	62XMX
Type of Call	М	М	М
Action Taken	D	D	I
Fail Area-Module-FCO-Comments	62XMX-I003	62XMX-I003	62XMX-I003
Material Used	EQ-01630-01	EQ-01630-01	EQ-01630-01

(a) Warranty Optimum, Warranty Standard and Warranty Basic (on-site)
 Agreements; * Note material (only) free of charge for all customers.

(b) Applies to IN-DEC Area Only

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

\\FCO_DOCS \\62XMX \\6000-2XX \\EQ-01630-01

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