\_FCO KN20-AA-0001, Potential Problem in Early Revenue Version of CPU Chip

Field Application Document (FA)

DIGITAL	FCO	CAT	CATEGORY				
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FIELD CHANGE ORDER NUMBER: KN20-AA-0001							
APPLICABILITY: 5 board revisions revision H01 and installable and	This FCO is for the Al F01 or below and ship d above do not need th should be considered	lphastation 600 sys oped prior to Septe nis FCO. This FCO i a required update	tems with sy mber 1995. A s Field Serv to all custo	All vice omers.			
PROBLEM & SYMPTO in an early reve only under extre experimental ver and Windows NT)	DM: There is a potention enue version of the 21 emely RARE and unliked rsion f Digital UNIX (	ial problem (branch 1164 (EV5) CPU chip ly circumstances. (but could potentia	mispredicti . This prob It was found lly affect (	ion) fo plem oc d with DpenVMS	ound ccurs an S		
SOLUTION: The so the new system r	olution for this probl module rev H01 or high	lem is to replace t ner.	he system mo	odule w	vith		
QUICK CHECK: See attached list of systems that will need this FCO.							
PRE/CO-REQUISITE FCO: None   MTTI HRS   1.5							
TOOL/TEST EQUIPMENT: Philips screw driver, power-up diagnostics and booting system is all that is needed.							
	FCO PART	INFORMATION					
FCO KIT NO. DESCRIPTION OF CONTENTS							
EQ-01736-01   H	Q-01736-01 FA-05071-01 FA Document, 54-23242-02 266mhz mother board, 23-310Y1-00 PAL and 36-46114-01 safety label.						
FA-05071-01   This FA Document.							
FCO CHARGING INFORMATION (See Page 5)							
APPROVALS							
TECH. ENGINEER John Leeds	ENG. BUSINESS MGR.   Sandy McPherson	DSHQ LOGISTICS   Scott Almeida 	SHQ LOGISTICS  DS PRODUC Scott Almeida		CT SAFETY		
MICROMEDIA Dianne MacDonald	PARTS AVAILABILITY   Scott Almeida	FCO REVISION	FCO RELEASE DATE		ΓE		

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* INSTRUCTIONS FOR CHECK AND	REPLACING THE SYSTEM MODULE *						
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* CAUT	ION *						
*****	****						
WEAR A STATIC WRIST ST	RAP AND USE A STATIC MAT.						
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Refer to section 3 of the AlphaStation Information Guide (EK-AS800-UI) for a	Refer to section 3 of the AlphaStation 600 Series User Information Guide (EK-AS800-UI) for more detailed instructions.						
*************	* * * * * * * * * * * * * * * * * * * *						
<ol> <li>Have the customer run shu has been shutdown, at the list of all the system parameter following parameters down so that he system at the end of the instant</li> </ol>	tdown on the system. After the system >>> type SHOW <cr>. This will give a s. Write the values of the t you can reset them back on allation of this FCO.</cr>						
os_type bus_probe_algorithm bootdef_dev boot_osflags boot_reset ewa0_mode sys_serial_num language tga_sync_green auto_action ewa0_protocol console And any other site-specific parame	eters						
2. Power off the system and system.	remove all cables from the back of the						

3. Remove the left side panel by turning the key counterclockwise to a vertical position and slide the panel toward the rear of the system and remove it.



- 8. Disconnect the three power cables and the fan cable on the top of the system module, the two ribbon cables and speaker cable at the bottom right side of the system module.
- 9. Remove the 15 mounting screws that hold the system module in place and remove the module.
- 10. Take the new system module from the kit and install it into the system by inserting the left side of the board first, so that the external connectors on the upper left side of the board can be positioned properly. Ensure that the two locating pins attached to the back wall of the enclosure engage the two locating holes in the right corners of the system board.
- 11. Reinstall the 15 mounting screws, three power cables, fan cable, two ribbon cables and speaker cable.
- 12. Reinstall all the internal ISA, EISA and PCI expansion modules except for the P2SE module (54-24101-01).
- 13. Take the P2SE module (54-24101-01) and check the revision. If is revision H01 then reinstall the module and go to step 15. If the module is F01 then take the module with the gold pins facing

down and the thinwire Ethernet connector on the bottom left side, and find jumper W6. On the left side next to the W6 jupmer, there is a removable PAL. This PAL is square, with a socket size of 5/8" X 5/8". Using a paper clip remove the PAL by inserting the paper clip in the slots in the socket and pry the PAL up.

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- 14. Take the new PAL (23-310Y1-00) from the kit and install it in the socket that you just removed the old PAL from, making sure that the edge with the notch in it is aligned with the bottom left side of the socket. Place the H01 label over the F01 label on the P2SE module and reinstall the module back into the system. You can discard the old PAL.
- 15. Reinstall the upper and lower memory towers and the three cache modules.
- 16. Looking into the left side of the system, look at the lower right front (power supply cover), and if you don't see the safety label installed on the power supply cover panel, then install the safety label that came in the kit.
- 17. Reinstall the side cover and all external cables and put the safety label (36-46114-01) on the back of the system.
- 18. Power up the system and at the >>> type SHOW <cr>. Compare the settings with the ones you wrote down in step 1 and set them so they will be the same as they were when you started.
- 19. If there are ISA or EISA modules in the system, and the customer is running Open VMS or Digital Unix, you will need to run the ECU configuration utility. Refer to Appendix A of the AlphaStation 600 Series run on how to run the ECU configuration utility.
- 20. After running the ECU configuration utility power cycle the system and if the power-up tests pass, boot the operating system. If the system boots without any errors, fill out your LARS and the FCO is complete.
  - 21. Report this FCO activity on the LARS form in the "Fail Area/Module/FCO/Comments" column as follows: FCO-KN20-AA-0001.

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CATEGORY O USA	APA	EUROPE	
Activity -			
(a)Contract	W	U	K
Warranty	W	U	W
(b)IN-DEC Contract	К	U	А
Non Contract/Non Warranty	7 F	F	F
(c)RTD/Off-site Agreement	F	U	F
Hardware Segment Code	111	111	111
Product Line	031/001	031/001	031
DEC Option	KN20-AA	kn20-aa	KN20-AA
Option ID	Х	N/A	N/A
Type of Call	М	М	Μ
Action Taken	D	D	I/V
Quality Codes			M,L,J,R,X,A,Y,Z
Fail Area-Module-			
FCO-Comments F	KN20-AA-0001	KN20-AA-0001 FCC	)-KN20-AA-0001
Material Used	EQ-01736-01	Eq-01736-01 0173	36-01

- (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 CHARGING INFORMATION								
WARRANTY/CONTRACT				NONWARRANTY/NONCONTRACT				
ON-SI	ITE	OFF-S	GITE	TTE    ON-SITE   OFF		OFF-S	SITE	MATERIAL ONLY
 TRAVEL/	EQ		EQ	   TRAVEL/	EQ		EQ	  ORDER-ADMIN,HANDLING
INSTALL	KIT	INSTALL  	KIT	INSTALL	KIT 	INSTALL	KIT	PKG,SHIPPING & EQ KIT
DEC	DEC	DEC	DEC	CUS	CUS	CUS	CUS	CUS

LARS