CORVUS

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20 August 1984

Dear Service Center,

There is a subtle, but very important, change to the 'Latest ROM Releases' and the 'Current Software and Firmware Releases' in this Update; a bold typeface is used to denote new items and italics to denote changes from the previous list. The highlighting of changes to the lists is a direct response to a request by a Service Center. We appreciate the suggestion and remind you that you may send your comments or suggestions for the Update to the Customer Service Update Editor.

There are several 'Hot' items this month. Pages 6 and 12 describe software upgrades available from Customer Service. Ordering information on the new Extended Limited Warranties and an addendum to the Customer Service Price List are two other items which should be of special interest to you.
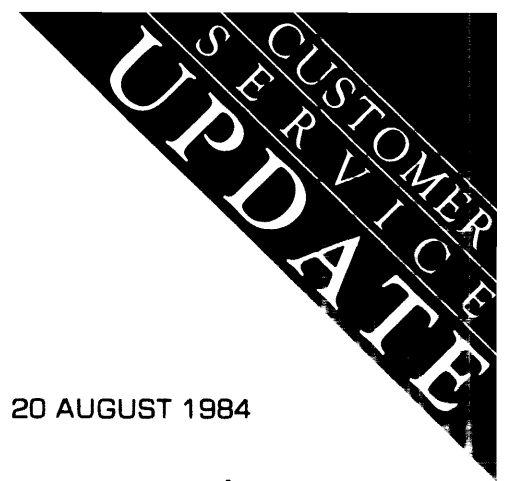
In next month's issue there will be some tips on the Utility and Printer Server operation. A note here: When using the Printer Server from an OmniDrive, it is necessary to initialize Pipes and spool a file prior to turning on the Printer Server. If this is not done, the Printer Server may not find the pipes area.

Regards,

George Amarandos
Product Support Manager

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CUSTOMER SERVICE UPDATE 4.8   20 AUGUST 1984

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LATEST ROM RELEASES

Note: Additions to the July 1984 list are in **bold face** type. Changes to the July 1984 list are in *italics*.

		Position	ROM Code Version	Firmware Version	Comments
CONTROLLER ROMS					
OmniDrive—	Boot PROM	U4	ODC100	FODR1.6	
	6801 MCU	U24	T9B		
OmniDrive—	**Boot PROM**	**U4**	**MOD120**		
Macintosh	**6801 MCU**	**U24**	**T9B**		
	Logic Array	**U15**	**MCPAL1**		
H-Series Drives		U62	C7.63	18.4AP	
6-MB Revision B Drives		U31	C7.58	18.4AP	
		U32	C8.58		
11/20-MB Revision B Drives		F2	C3.22	18.4AP	
		H2	C4.22		
The Bank		U105	BKB280	FBNK4.3	On Diagnostic
		U103	T9.B		diskette
OMNINET PERIPHERALS					
Disk Server	Boot PROM	U3	DS9B1D		For use with Bank
	6801 MCU	U1	T9.B		and Multiple Servers
Disk Server	Boot PROM	U3	DS18.A		For use with Bank
	6801 MCU	U1	8A		
Disk Server	Boot PROM	U3	DS8A.A		For use with H-Series
	6801 MCU	U1	8A		drives w/o Bank
Utility Server	*Boot PROM*	*U27*	*CRB120S*		
	6801 MCU	*U15*	*T9.B*		
TRANSPORTER ROMS					
Apple II	Boot PROM	U15	AT1.8		For use with Const I
	6801 MCU	U5	8A		
Apple II	Boot PROM	U15	*ATB310*		For use with Const II
	6801 MCU	U5	T9.B		
Apple III	6801 MCU	U5	8A		
DEC Rainbow	EXT 6801 PROM	U16	EXT9B		
	6801 MCU	U7	8A		
IBM PC/XT	Boot PROM	U36	ITB150S		
	6801 MCU	U9	8A		
TI Professional	Boot PROM	U36	TTB160		
	6801 MCU	U9	8A		
Zenith Z100	6801 MCU	U8	8A		

	Position	ROM Code Version	Firmware Version	Comments
INTERFACE ROMS				
Apple II/IIe	U10	A4.7		
IBM PC/XT	U12	IFB150S		
Concept	U10	A4.7		
CONCEPT				
Boot PROMs	U706	CCB0.7L		Rev A Processor
	U711	CCB0.7H		
	U706	**CCB1.7L**		Rev B Processor
	U710	**CCB1.7H**		
Mapper PROM	U309	CM0.4A		
MISCELLANEOUS				
IBM XT Mirror Card	**U24**	**MBC240**		

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CURRENT SOFTWARE AND FIRMWARE RELEASES

Note: Additions to the July 1984 list are in **bold face** type. Changes to the July 1984 list are in *italics*.
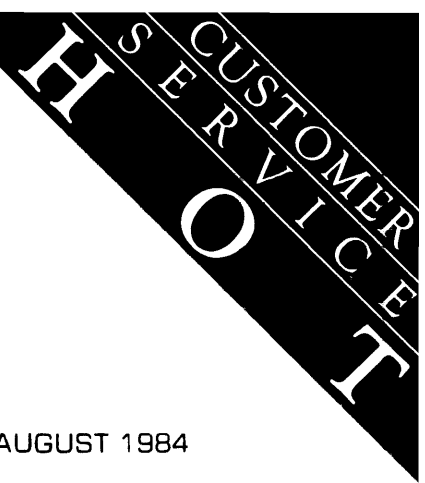
Computer	Diskette Firmware Version	Software	Date		Comments
Apple II/IIe Constellation II	FODR1.5 18.5	Pascal 1.1/1.2 Vol 1	30 Apr 84		Firmware versions given are the lowest acceptable version for use with that operating system
	FODR1.5 18.5	DOS 3.3 Vol 1 & 2	30 Apr 84		
	FODR1.6 18.6	**CP/M** **Vol 1 & 3** **Vol 2**	**30 Apr 84** **25 Jun 84**		
	FODR1.5 18.5	**ProDOS** **Vol 1 & 2**	**14 Jun 84**		
		Const Utils *Vol 1 & 4* *Vol 2 & 3*	*25 Jun 84* *4 Jul 84*		
		Printer Server **Bank**	**11 Jun 84** **20 May 84**		
Apple II/IIe Constellation I	18.4AP	BASIC Pascal Vol 1 Pascal Vol 2 Pascal Diag CP/M CP/M 2.2 Pascal 1.1 Constellation BASIC Pascal Remote Mirror Utility Server Disketteshare DOS Utilities Network Server	21 Nov 82 22 Dec 82 21 Nov 82 22 Dec 82 12 Jan 83 12 Jan 83 21 Nov 82 21 Nov 82 3 Dec 82 30 Sep 83 22 Aug 83 22 Aug 83		All Drives except OmniDrive
Apple III	18.4AP	CORIII1 CORIII2 CORIII3	11 Mar 83 11 Mar 83 11 Mar 83		All Drives except OmniDrive
Atari 800	18.3	Vol 1 & 2	14 Jan 83		All Drives except OmniDrive

Computer	Diskette Firmware Version	Software	Date		Comments
Concept 8"	18.4AP	FBOOT	1 Feb 84		All Drives
		FSYSGEN	21 Mar 84		
		FDIAG	1 Feb 84		
		FCCSYS1	21 Mar 84		
		FCCSYS2	1 Feb 84		
		FCCSYS3	1 Feb 84		
		FCCSYS4	1 Feb 84		
		FPSYS	1 Feb 84		
		FPASCAL	15 Feb 84		
		FFORTRN	15 Feb 84		
		FLGICLC	1 Feb 84		
		FEDWORD	1 Feb 84		
		FCCLIB	15 Feb 84		
		FISYS1	1 Feb 84		
		FISYS2	1 Feb 84		
		FGRAPH	1 Feb 84		
		CP/M Emulator	21 Jun 83		
		CP/M Master	20 Jun 83		
		Printer Server	30 Sep 83		
		Bank Volume 1	1 Feb 84		
		Bank Volume 2	1 Feb 84		
		'C' Compiler	2 Jan 84		
		BASIC	2 Jan 84		
		FPAINT	11 Dec 83		
Concept 5.25"	18.4AP	FBOOT	1 Feb 84		All Drives
		FCCSYS1	1 Feb 84		
		FCCSYS2	1 Feb 84		
		FPSYS	1 Feb 84		
		FPASCAL	1 Feb 84		
		FFORTRN	1 Feb 84		
		FLGICLC	1 Feb 84		
		FISYS	1 Feb 84		
		FGRAPH	1 Feb 84		
		FPAINT	11 Dec 83		
		Bank	1 Feb 84		
		'C' Compiler	2 Jan 84		
		BASIC	2 Jan 84		
DEC LSI-11 (Flat-Cable Only)	CFLSI1.0	Vol 1 of 1	22 Aug 83		
DEC Robin	17.3	Vol 1	15 Nov 82		Revision B Drives
		Vol 2	13 Apr 83		
DEC Robin	18.4	Vol 1	7 Dec 82		H-Series Drives
		Vol 2	15 Nov 82		
DEC Rainbow CP/M 86/80	FODR1.4	Vol 1 & 2	24 May 84		Omninet Only
		Vol 3	22 Jun 84		All Drives
MS-DOS 2.0		Vol 1	20 Apr 84		Omninet Only All Drives
		Printer Server	2 Nov 84		
IBM PC/XT DOS 2.X (Multiple Server Release)	FODR1.4	Vol 1 & 2	23 Mar 84		All Drives
		Vol 3	27 Apr 84		
		Vol 4	17 Apr 84		
IBM PC/XT DOS 2.X	18.4AP	Vol 1, 2 & 5	2 Aug 83		All Drives except OmniDrive
		Vol 3	14 Sep 83		
		Vol 4	6 Dec 83		
IBM PC/XT DOS 1.1	18.4AP	Vol 1 & 2	22 Jul 83		All Drives except OmniDrive
		Vol 3 & 4	5 Aug 83		

Computer	Diskette Firmware Version		Software Date	Comments
IBM PC/XT		Printer Server	27 Mar 84	DOS 1.1 or 2.X
		XT Mirror	20 Jan 84	
		Bank Diag	10 Feb 84	
	.	Transfer Utils	10 Feb 84	
IBM XT OmniShare		Vol 1 — 3	25 Jun 84	
NEC	17.3	Vol 1	15 Nov 82	Revision B Drives
		Vol 2	1 Mar 82	
NEC	18.4	Vol 1	7 Dec 82	H-Series Drives
		Vol 2	15 Nov 82	
Osborne	17.3	Vol 1 & 3	17 Jan 83	Revision B Drives
		Vol 2 & 4	29 Jul 82	
Osborne	18.4	Vol 1 & 3	11 Jan 83	H-Series Drives
		Vol 2 & 4	15 Nov 83	
S-100	17.3	Vol 1	30 Oct 82	Revision B Drives
CP/M 2.2		Vol 2	13 Apr 82	
S-100	18.4	Vol 1	7 Dec 82	H-Series Drives
CP/M 2.2		Vol 2	29 Oct 82	
Sony	18.3	Vol 1 & 2	2 Nov 82	H-Series Drives
		Mirror Utility	10 Jun 83	
TI Professional	FODR1.4	*Vol 1, 2, & 2A*	*26 Mar 84*	All Drives
	18.4AP	*Vol 3*	*27 Apr 84*	
		Vol 4	*17 Apr 84*	
		Printer Server	24 Apr 84	
TRS-80	18.4	Vol 1 & 2	21 Jul 82	All Drives except
Model I		Vol 3	17 Jan 83	OmniDrive
TRS-80	17.3	Vol 1 & 2	15 Nov 82	Revision B Drives
Model II				
TRS-80	18.4	Vol 1	7 Dec 82	H-Series Drives
Model II		Vol 2	15 Nov 82	
TRS-80	18.4	Vol 1 & 2	21 Jul 82	All Drives except
Model III		Vol 3	17 Jan 83	OmniDrive
Xerox 820	18.4	Vol 1 & 3	15 Nov 82	Revision B Drives
5.25"		Vol 2 & 4	17 Feb 82	
Xerox 820	18.4	Vol 1	15 Nov 82	Revision B Drives
8"		Vol 2	17 Feb 82	
Xerox 820	18.4	Vol 1-4	15 Nov 82	H-Series Drives
5.25"				
Xerox 820	18.4	Vol 1 & 2	15 Nov 82	H-Series Drives
8"				
Zenith Z89	17.3	Vol 1	15 Nov 82	Revision B Drives
		Vol 2-4	17 Feb 82	
Zenith Z89	18.4	Vol 1	7 Dec 82	H-Series Drives
		Vol 2-4	15 Nov 82	
Zenith Z90	17.3	Vol 1	15 Nov 82	Revision B Drives
		Vol 2	18 May 82	
Zenith Z90	18.4	Vol 1	7 Dec 82	H-Series Drives
		Vol 2	15 Nov 82	
Zenith Z100	18.4AP	*Vol 1 & 4*	*5 Apr 84*	Omninet Only
CP/M		*Vol 2 & 2B*	*22 Mar 84*	All Drives
		Vol 3	*30 Mar 84*	
		Vol 5 & 6	*20 Apr 84*	
		Printer Server	*2 May 84*	

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DEC RAINBOW

The 24 May 1984 release of utilities for the DEC Rainbow contains errors in two areas:

1) A problem has been discovered when using the Mirror program to restore an image. The program will continue to run and never return to indicate a successful restore.

2) The Omninet driver may occassionally report erroneous transmission failures. These will appear to the user as Omninet Errors 80, 82, or 83.

Both items have been corrected with the release of the Omninet driver. A single diskette is available from Customer Service at no charge. Specify Part Number 9000-00072-00 when ordering.

A separate item to note concerning the 24 May release of DEC Rainbow MS-DOS utilities: This release is intended for Omninet installation; although flat cable operation may work, it is not supported by Corvus.

APPLE II/IIe

When installing Constellation II on the Apple II/IIe, operating systems (i.e. DOS 3.3 or Pascal) are added after the drive has been "Sysgen-ed" for Constellation II use. If when installing an operating system the "Modify Existing Drive" option does not allow the addition of the four Apple operating systems (i.e. the options are not displayed), the Transporter card is probably not installed in slot 6 per the instructions in the *System Generation Guide*, or the floppy interface card is not in slot 4.
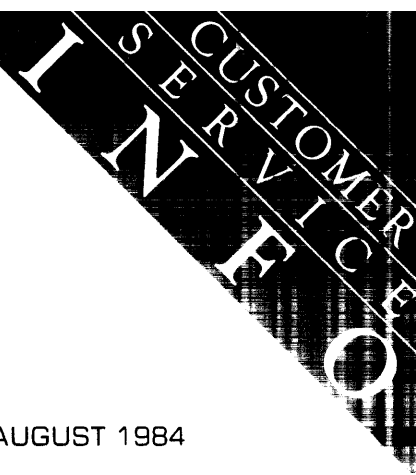
Make the appropriate slot corrections and re-boot as A2MGR to install the desired operating system.

If the message "Corvus Volume Table Not Found" appears, the problem may be a non-standard floppy controller or drive.

When using The Bank in conjunction with the Apple II under Constellation II, note that to format a tape the Transporter card must be in slot 7. Attempting to use any other slot will cause the Apple to jump into the machine language monitor when format is selected.

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UTILITY SERVER

This month two issues will be addressed concerning the Utility Server. One involves difficulty installing the Printer Server software; the other, setting the time and date.

Numerous calls have been received from customers who are receiving Pascal "I/O Error #8" when attempting to install the Printer Server software. Failing to correctly create the PSERVER volume is normally the cause of this error. Instructions for creating the PSERVER volume can be found on page 6 of the *Utility Server Manager's Guide; Constellation II Printer Server* (7100-04910).

Failure to correctly mount the PSERVER volume will result in the error message "I/O Error #9" when attempting to "Update Utilities" from the Maintenance Manager. The error appears when the update program fails to find either the Printer Server distribution diskette in the first available floppy drive or the PSERVER volume is not on the required mount unit. Instructions are given in step 5 on page 9 of the above mentioned *Utility Server Manager's Guide*.

The correct unit to mount volume PSERVER on by computer type is:

Apple II/IIe	11
DEC Rainbow	9
IBM PC/XT	10
Texas Instruments Professional	10
Zenith Z100	10

As the PSERVER volume must be mounted on the unit specified above, the availability of that unit should be ascertained prior to mounting the volume. List the mounted volumes, and remount any volume currently mounted to the desired PSERVER unit.
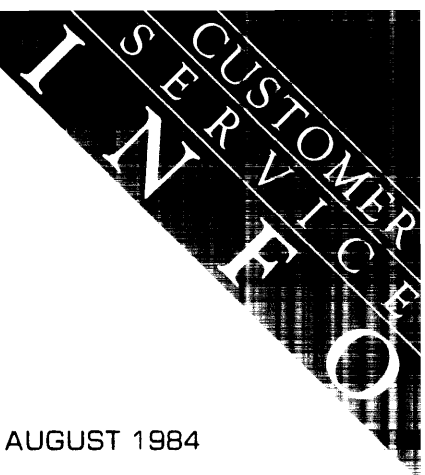
Some users have reported difficulty in setting the time and date when using the Time Service portion of the Utility Server Manager software.

In most cases the difficulty was caused by the incorrect setting of a DIP switch within the Utility Server. Note that when position 8 of the DIP switch is "OFF" the time and date will be loaded from the disk drive at power-on. When position 8 is "ON" the time and date will be loaded from the internal clock chip.

It is recommended that once the time and date are loaded initially to the Utility Server, that position 8 be turned "ON" and that the server be left on to retain the current time and date.

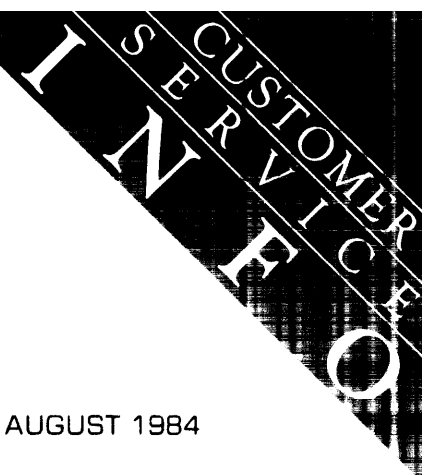UPDATE VOLUME 4.8   20 AUGUST 1984

IBM XT MIRROR

Some users have reported that when attempting to back-up using the XT Mirror card for the first time the computer "hangs." The problem has been traced to the incorrect setting of jumper "E1" on the XT Mirror card. (The jumper is located on the lower portion of the card between ICs U19 and U20). This jumper should be installed either on position A or position B, but not both. A number of cards were shipped from Corvus with both positions jumpered. For proper operation these cards should be checked before use.

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DRIVE AND SERVER NAMES AND PASSWORDS

The April 1984 Service Update detailed a procedure to alter the names and passwords of both the disk server and disk drive. Following the use of the FIXIT program to modify drive or server names, or passwords, the users' attributes must be modified using Constellation II utilities to reflect the changes made.

It should be noted that with the release of multiple server software an additional step is now required to specify the "Home Server."

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CONCEPT BUFFERED FLOPPY INTERFACE CARDS

Several calls have been received from customers who have removed jumpers which are installed on the buffered floppy interface and subsequently could not use the interface card.

The correct jumper settings are as follows:
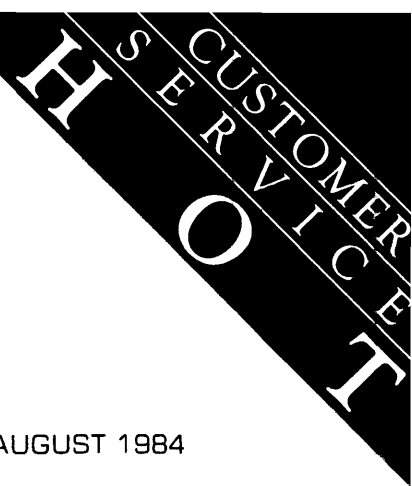
5 1/4" Double Sided Drive

E1 — B & C
E3 — Jumpered
E5 — Jumpered
E7 — Jumpered
E10 — B & C
E11 — B & C

8" Double Sided Drive

E1 — A & B

E2 — Jumpered
E5 — Jumpered
E6 — Jumpered
E10 — A & B

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SHUGART DRIVES WITH IBM PC'S AND ZENITH 150'S

IBM PC and Zenith 150 users with Shugart floppy disk drives have been unable to initialize their Corvus disk drives. This is the result of a slower step rate used by Shugart. To rectify this problem, a new set of CORMS diskettes has been released. These are CORMS21 and CORMS22, part number 9000-0070-00. This 3 August release is available through Customer Service as a no-charge upgrade to users who have previously purchased this Corvus software.

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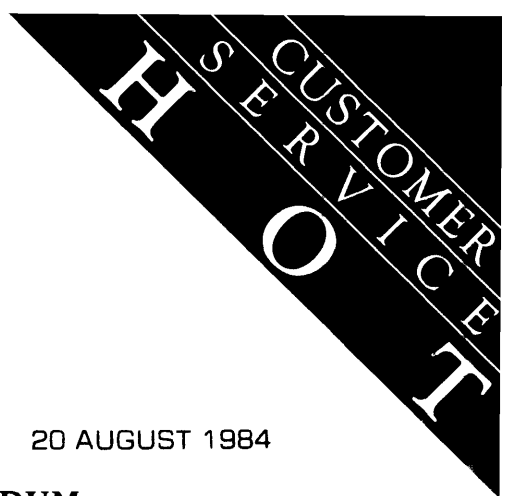(408) 559-7000
Telex 278976

NEW EXTENDED LIMITED WARRANTY AVAILABLE

A new Extended Limited Warranty package is available (United States only). All Corvus products may be covered, and at more attractive prices. Coverage may be purchased for a period of 6 or 24 months and is renewable; there is no longer a 30-month limitation on warranty coverage. Each Warranty Agreement can be tailored to the individual customer's needs which eliminates the need to stock product-specific warranties.

Further details on the new Extended Limited Warranty (Part Number 7100-06531-01) are available from Corvus Customer Service Administration at 408-559-5229.

CUSTOMER SERVICE PRICE LIST ADDENDUM

The prices below are additions or changes to the "Corvus Customer Service Administration Manual Supplement," June 1984, Part Number 7100-06176-01. Price changes shall be effective 20 September 1984.

Customer Service Retail Price Schedule

Description	Part Number	Retail	Dealer	Service	
H-Series Power Supply	8010-09322	235.00	188.00	164.55	C
SNA Gateway Parts					
A/C Panel	8010-08091	82.00	65.60	57.45	A
Power Supply	8010-08522	355.00	284.00	248.50	A
Memory Board	8010-08737	1645.00	1316.00	1151.50	A
Controller	8010-10350	290.00	232.00	203.00	A
Processor PCA	8010-10111	835.00	668.00	584.50	A

Customer Service Exchange Price Schedule

Description	Part Number	Retail	Dealer	Service	
Non-Etched Monitor	8010-08082	805.00	644.00	563.50	C
SNA Gateway Parts					
A/C Panel	8010-08091	60.00	48.00	42.00	A
Power Supply	8010-08522	265.00	212.00	185.50	A
Memory Board	8010-08737	1234.00	988.00	863.80	A
Controller	8010-10350	215.00	172.00	150.50	A
Processor PCA	8010-10111	630.00	504.00	441.00	A

C — Price Change
A — New Item