

Workflow Systems

Alpha NT 4.0 Installation Procedure

Document Number
73-3163A-C-PR01

May 12, 1999

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Creo Products Inc.

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Alpha NT 4.0 Installation Procedure

CONTENTS

1. SCOPE **1**

1.1 REVISIONS **1**
1.2 HARDWARE BREAKDOWN **1**
1.2.1 UPS REQUIREMENTS 19
1.3 DRIVE DESIGNATIONS **20**
1.4 YOU WILL NEED **20**

2. SYSTEM OVERVIEW **21**

2.1 INTRODUCTION **21**
2.2 CONNECT HARDWARE **22**
2.2.1 ALPHASERVER 4000'S SERIAL COMBO MODULE: 22
2.3 UPS CONNECTION **23**
2.4 SYSTEM INSTALLATION **24**
2.5 SYSTEM PREPARATION **24**
2.6 HARDWARE OVERVIEW **24**
2.6.1 SETUP 28
2.6.2 NETWORK 28
2.7 LOW LEVEL FIRMWARE/SOFTWARE SETUP **29**
2.7.1 VERIFY FIRMWARE LEVEL 29
2.7.2 ALPHA LED DISPLAY SETUP (ALPHA 2100/A, 4000, 5300 SYSTEMS ONLY) 30
2.7.3 EISA CONFIG UTILITY (ECU) (ALPHA2100/A) 31
2.7.4 QLOGIC SETUP (ALPHA 2100/A, ETN30) OR (ALPHA 4000 (WITH TRENDSERVER)) 32
2.7.5 CREATE BOOT PARTITION WITH ARCINST 33
2.7.6 UPDATE OS SELECTION SETUP PROCEDURE (ALPHABIOS) 35
2.7.7 EEPROM PARAMETER PROGRAMMING (IF QLOGIC SCSI IS INSTALLED) 35
2.7.8 HARD DISK PARTITIONING 36

3. INSTALLING NT 4.0 SERVER **38**

3.1.1 CONFIGURING INSTALLATION FOR NT 38
3.1.2 NETWORK SELECTION SETUP 42
3.1.3 CONFIGURING NT SHELL 44
3.1.4 SETTING STANDARD DRIVE LETTERS 46
3.1.5 ADD NEW USER NAME 50
3.1.6 SETUP COM3 AND 4 PORTS (NON ALPHA 500 ONLY) 51
3.1.7 INSTALL/UPGRADE OTHER NT DRIVERS 52

3.1.8 CONFIGURE PERFORMANCE SETTINGS 53
3.1.9 INSTALL UPS SOFTWARE 55
3.1.10 INSTALL SERVICE PACK 3 AND 4 56
3.1.11 CREATING EMERGENCY REPAIR DISK 56
3.2 CONFIGURE ALPHA 5300, 4000 OR 2100/A SPECIFIC OPTIONS 57
3.2.1 CREATING A MIRROR SYSTEM DRIVE 57
3.2.2 CREATE AN ALTERNATE BOOT MENU 59

4. DATA DISK CONFIGURATION 61

4.1 DISK BASE CONFIGURATION BACKUP 61
4.2 CREATING A LOGICAL NT DRIVE 61
4.3 CREATING A STRIPE SET LOGICAL NT DRIVE 62
4.4 DISK FINAL CONFIGURATION BACKUP 64

5. SYSTEM ENVIRONMENT 65

5.1 MINIMUM SPACE REQUIREMENTS 65
5.2 TEMPERATURE AND HUMIDITY 65
5.3 CLEANLINESS STANDARD 65
5.4 ELECTRICAL REQUIREMENTS 65
5.5 OPERATING ENVIRONMENT 65

6. APC'S MEASURE-UPS TEMPERATURE MONITOR FIELD INSTALLATION GUIDE 65

6.1 HARDWARE INSTALLATION 66
6.2 SOFTWARE INSTALLATION 66
6.3 ALLEGRO WORKSTATION NT CONFIGURATION CHECK LIST 69
6.4 ALLEGRO WORKSTATION NT CONFIGURATION CHECKS 70
6.4.1 RECORDING ALLEGRO WORKSTATION NAME 70
6.4.2 RECORDING ALLEGRO WORKSTATION IP ADDRESS 70
6.4.3 RECORDING ALLEGRO WORKSTATION WORKGROUP NAME 70
6.4.4 RECORDING ALLEGRO WORKSTATION VIRTUAL MEMORY SETTING 70
6.4.5 VERIFYING SYSTEM'S PAGING FILE SIZE 70
6.4.6 SETTING PERFORMANCE BOOST FOR FOREGROUND APPS TO 0 70
6.4.7 SETTING NT NETWORK SERVER SETTING 71
6.4.8 SETTING NT'S LARGESYSTEM CACHE REGISTRY SETTING 71
6.4.9 VERIFYING NT SHARED RESOURCES 71

7. END. 71

1. SCOPE

This procedure will help the user set up Windows NT onto any Creo System. It includes steps from setting up the hardware to configuring Windows NT Operating System. This will include the ETN 30, Alpha 400, Alpha 500, Alpha 2100/A, Alpha 4000, Alpha 5300. All the platforms will be configured to a common level. ***For any other software or hardware configuration, please consult the related installation document.***

1.1 Revisions

Date	Modification	
970610		- First Production Release
970820	A	- First version of 4.0
980701	A – B	Cleanup and implement 2/533a Alpha 5300 server.
980723	A – B	Added Alpha 5300 pictorial
990512	B – C	Added reference to NT4SP4

1.2 Hardware Breakdown

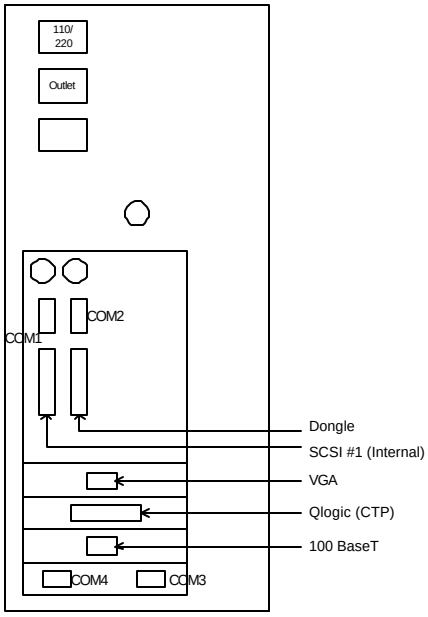
The following pages will list the hardware installed and a diagram of the back of the unit for the various configurations:

Allegro 1100/2000

AlphaStation/Server 400

Creo Name	Allegro
Creo Designation	1100/2000
AlphaStation/Server	400
Creo #	94-
Dec #	
Internal System Disks	1 * 1.1GB
Internal Data Disks	1 * 1.1GB
SCSI ctrl internal	NCR810
SCSI ctrl 2	Qlogic
CPUs installed	1 * 233Mhz
Max# CPUs	1
Memory type/#slots	SIMM/6
Memory typical installed	128MB
Maximum upgrade	
Video card	Targa
Network Internal	0
Network added	10/100BT
CDROM	1
DAT	1
Floppy	1
Monitor	15"
Second Serial	Duocom
UPS	900VA

Figure 1

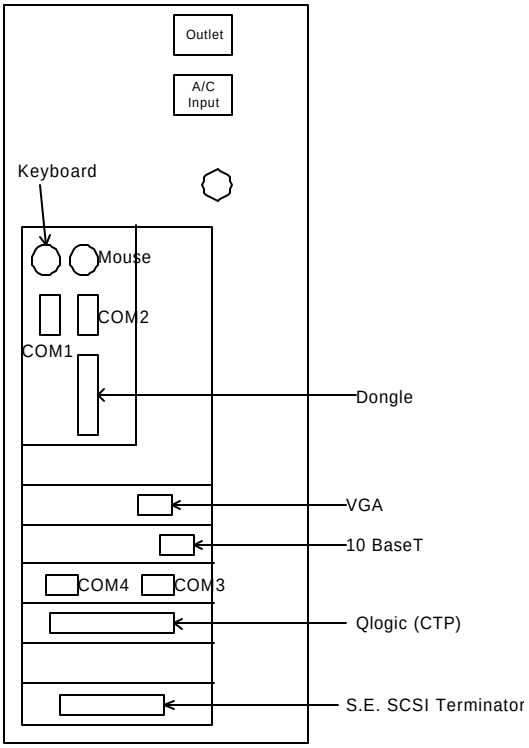


Allegro 1000

Alpha AXP 150

Creo Name	Allegro
Creo Designation	1000
Alpha AXP	150
Creo #	94-
Dec #	
Internal System Disks	1 * 0.5GB
Internal Data Disks	2 * 0.5GB
SCSI ctrl 1(EISA)	AHA1742
SCSI ctrl 2	AHA2740W
CPUs installed	1 * 150Mhz
Max# CPUs	1
Memory type/#slots	SIMM/8
Memory typical installed	128MB
Maximum upgrade	
Video card (EISA)	QVision
Network Internal	0
Network added	10BT
CDROM	1
QIC	1
Floppy	1
Monitor	15"
Second Serial	Duocom
UPS	400/600VA

Figure 2

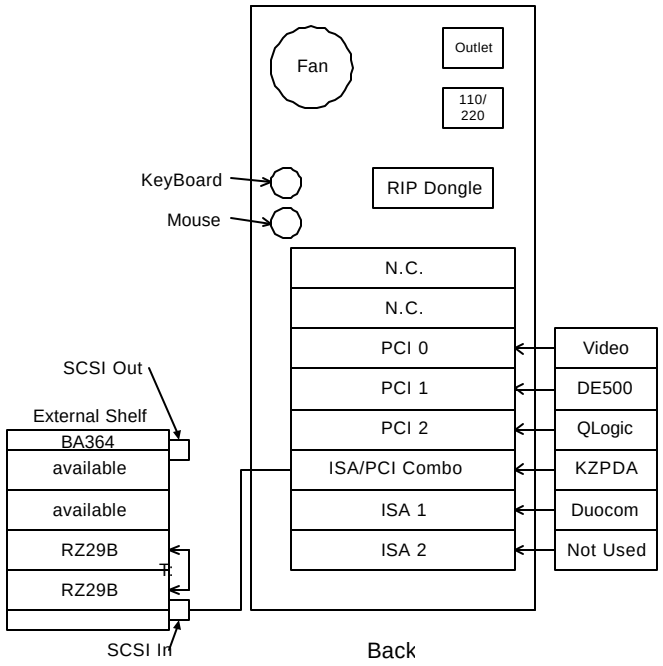


Allegro 3000

ETN-30

Creo Designation	Allegro 3000
Alpha	ETN-30
Creo #	94-00
Dec #	2C-97032-xx
Disk cabinet	None
Internal System Disks	1 * 2GB
Internal Data Disks	1 * 2GB
SCSI ctrl integrated	0
SCSI ctrl 2	KZPDA
SCSI ctrl 3	Qlogic IQ PCI-D
CPUs installed	1* 275Mhz
Max# CPUs	1
Memory type/#slots	SIMM/8
Memory typical installed	128MB
Video card	PCI S3 (#9)
Network Internal	none
Network added	100BT
CDROM	1
DAT	1
Floppy	1
Monitor	15"
Second Serial	Duocom
UPS	1000VA

Figure 3

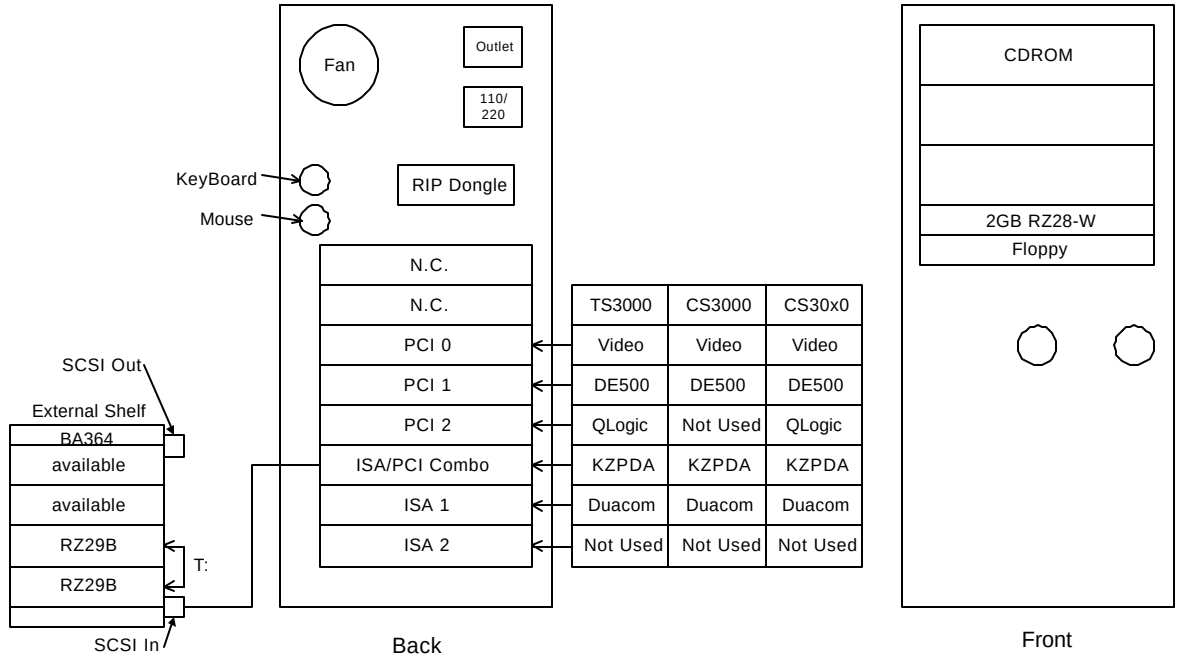


CreoServer 3000/30x0, TrendServer 3000/30x0

Alpha ETN-30

Creo Designation	CS3000	CS30x0	TS3000
Alpha	ETN-30	ETN-30	ETN-30
Creo #	94-0034A	94-0035A	94-0036A
Dec #	2C-97032-xx	2C-97034-xx	2C-97033-xx
Disk cabinet	BA364 with 2*4GB	none	BA364 with 2*4GB
Internal System Disks	1 * 2GB	1 * 2GB	1 * 2GB
Internal Data Disks	0	0	0
SCSI ctrl internal	0	0	0
SCSI ctrl 2	KZPDA	KZPDA	KZPDA
SCSI ctrl 3	KZPAA-AA	Qlogic IQ PCI-D	Qlogic IQ PCI-D
CPUs installed	1* 275Mhz	1* 275Mhz	1* 275Mhz
Max# CPUs	1	1	1
Memory type/#slots	SIMM/8	SIMM/8	SIMM/8
Memory typical installed	128MB	128MB	128MB
Video card	PCI S3 (#9)	PCI S3 (#9)	PCI S3 (#9)
Network Internal	none	none	none
Network added	100BT	100BT	100BT
CDROM	1	1	1
DAT	0	0	0
Floppy	1	1	1
Monitor	17"	17"	17"
Second Serial	Duocom	Duocom	Duocom
UPS	1000VA	2200VA	1000VA

Figure 4

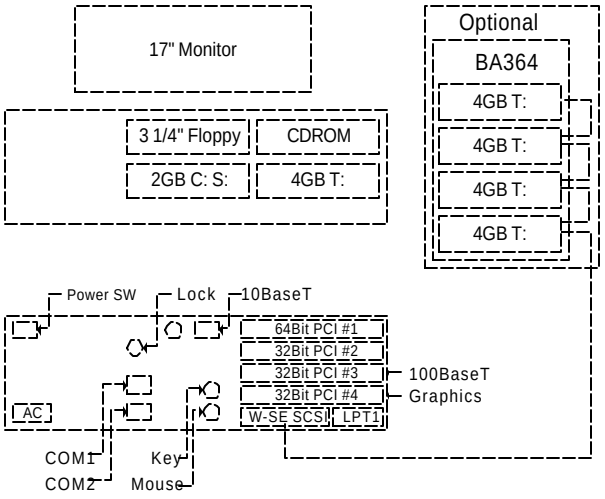


CreoServer 1/400a-xx, TrendServer 1/400a-xx
Alpha 500

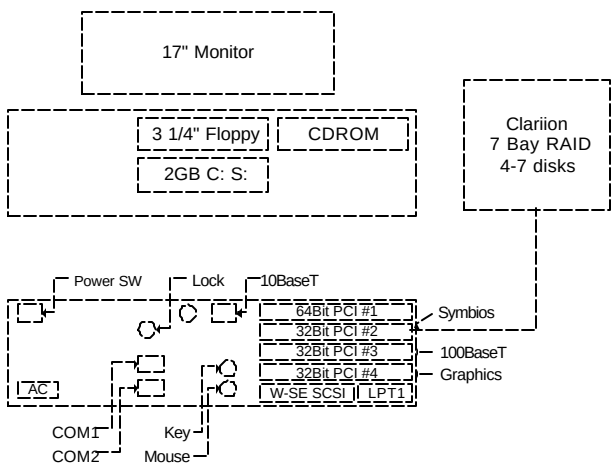
Creo Designation	1/400a-07	1/400a-00	1/400a-QUAD
Alpha	Alpha 500	Alpha 500	Alpha 500
Creo #		94-0044A	94-0039B
Dec #	2C-97540-00	2C-97540-04	2C-97540-20
Disk cabinet	none	none	BA356 with 6*4.3GB
Internal System Disks	1 * 2GB	1*2GB	1*2GB
Internal Data Disks	0	1*4.3GB	0
SCSI ctrl internal	NCR810	NCR810	NCR810
SCSI ctrl 2	Symbios	0	Mylex
SCSI ctrl 3	0	0	0
CPUs installed	1 * 400Mhz	1 * 400Mhz	1 * 400Mhz
Max# CPUs	1	1	1
Memory type/#slots	DINN/4	DINN/4	DINN/4
Memory typical installed	256MB	256MB	256MB
Maximum upgrade	2GB	2GB	2GB
Video card	Targa	Targa	Targa
Network Internal	10BT	10BT	10BT
Network added	100BT	100BT	100BT
CDROM	1	1	1
DAT	0	0	0
Floppy	1	1	1
Monitor	17"	17"	17"
Second Serial	0	0	0
UPS	none	none	none

Figures 5, 6 and 7

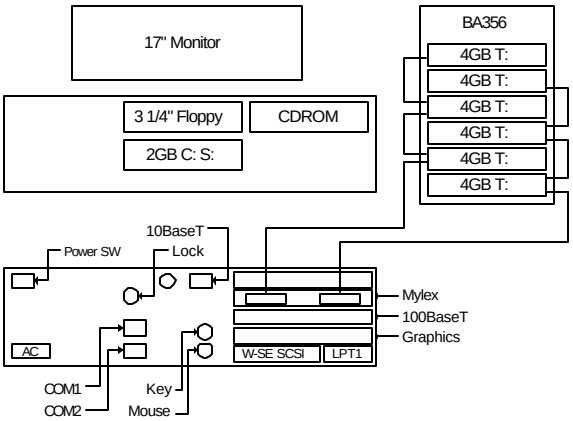
1/400a-00



1/400a-07



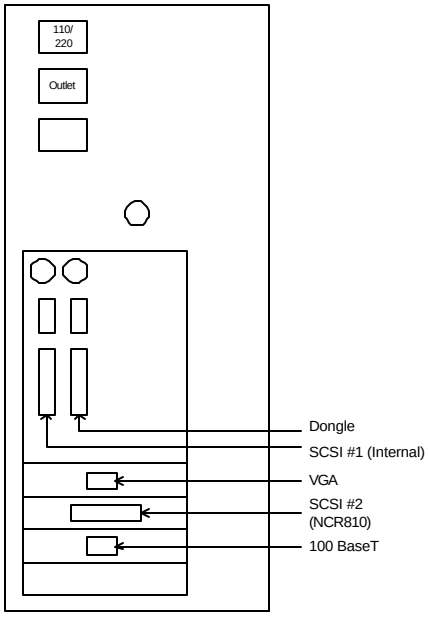
1/400a-QUAD


17" Monitor
BA356
4GB T:
4GB T:
4GB T:
4GB T:
4GB T:
4GB T:
3 1/4" Floppy
CDROM
2GB C: S:
10BaseT
Power SW
Lock
Mylex
100BaseT
Graphics
AC
W-SE SCSI
LPT1
COM1
COM2
Key
Mouse

CreoServer 2000, TrendServer 2000 - Alpha 400

Creo Name	CreoServer
Creo Designation	2000
Alpha	Alpha 400
Creo #	94-0024A
Dec #	96-x73-02
Disk cabinet	2 * 2.1GB
Internal System Disks	1 * 1.1GB
Internal Data Disks	1*4GB
SCSI ctrl internal	KZPAA
SCSI ctrl 2	0
SCSI ctrl 3	0
CPUs installed	1* 233Mhz
Max# CPUs	1
Memory type/#slots	SIMM/6
Memory typical installed	64MB
Maximum upgrade	
Video card	Targa
Network Internal	0
Network added	100BT
CDROM	1
DAT	0
Floppy	1
Monitor	15"
Second Serial	Duocom
UPS	none

Figure 8

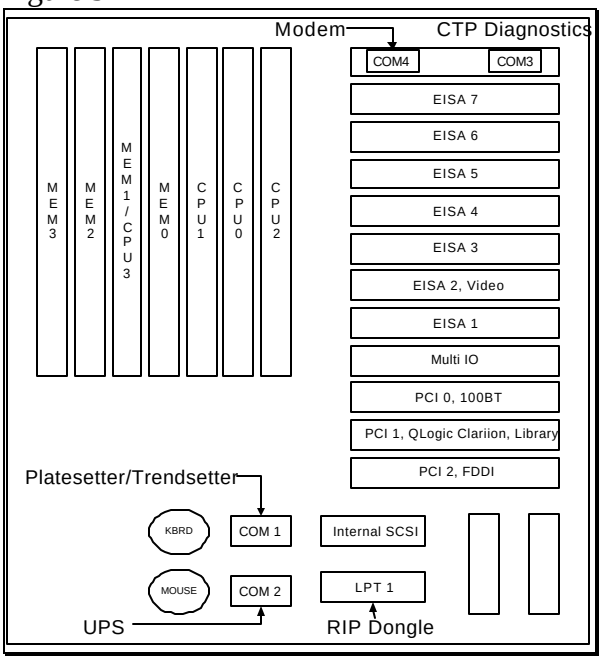


Allegro 4000/5000's

AlphaServer 2100's (non A)

Creo Designation	4000	5000
AlphaServer	2100's	2100's
Creo #	94-00	94-00
Dec #		
Disk cabinet	None	None
Int. System Disk	1 * 1GB or 0.5 * 4GB	1 * 1GB or 0.5 * 4GB
Internal Data Disks	1 * 2GB or 0.5 * 4GB	1 * 2GB or 0.5 * 4GB
SCSI ctrl integrated	NCR810	NCR810
SCSI ctrl 2	Qlogic IQ PCI-D	Qlogic IQ PCI-D
CPUs installed	1* 275Mhz	2 * 275Mhz
Max# CPUs	4	4
Memory type/banks/#slots	ECC2100/4/4	ECC2100/4/4
Memory typical installed	128MB	128MB MS451-DA
Maximum upgrade	2GB	2GB
Video card	PCI S3 (#9)	PCI S3 (#9)
Network integrated	10BT	10BT
Network added	100BT	100BT
CDROM	1	1
DAT	1	1
Floppy	1	1
Monitor	15"	15"
Second Serial	Duocom	Duocom
UPS	1400VA	1400VA

Figure 9



CreoServer 4000/40x0, PlateMaster 4500/45x0 - Alpha 2100 non A

Creo Designation	4000/4500	40x0/45x0
Alpha	2100 non A	2100 non A
Creo #	94-0027	94-0025
Dec #	2C-96x67-xx	2C-96x66-xx
Disk cabinet	BA356 with 5*2GB	
Internal System Disks	2 * 2.1GB	2 * 2GB
Internal Data Disks	5* 2.1GB	0
SCSI ctrl internal	NCR810	NCR810
SCSI ctrl 2	Qlogic IQ PCI-D	Qlogic IQ PCI-D
SCSI ctrl 3		
SCSI ctrl 4		
CPUs installed	1/2 * 275Mhz	1/2 * 275Mhz
Max# CPUs	4	4
Memory type/banks/#slots	ECC2100/4/4	ECC2100/4/4
Memory typical installed	128MB	128MB MS451-DA
Maximum upgrade	2GB	2GB
Video card	PCI S3 (#9)	PCI S3 (#9)
Network Internal	none	none
Network added	100BT	100BT
CDROM	1	1
DAT	1	1
Floppy	1	1
Monitor	17"	17"
Second Serial	Duocom	Duocom
UPS	2200VA	2200VA

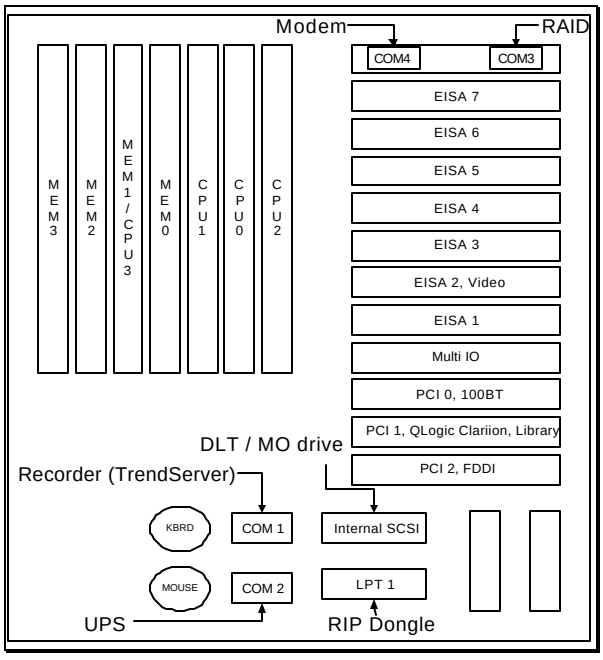
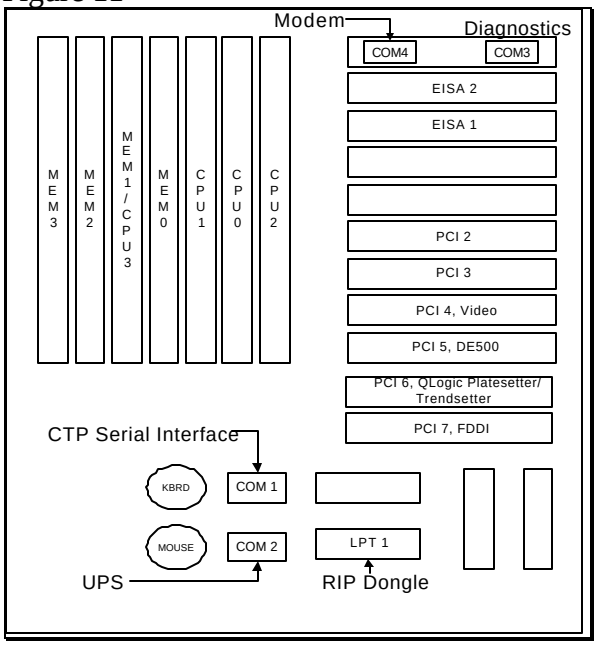


Figure 10

Allegro 4000/5000's
Alpha 2100A

Creo Designation	4000	5000
AlphaServer	2100A	2100A
Creo #	94-0012D	94-0012D
Dec #		
Disk cabinet	None	None
Internal System Disks	0.5 * 4.3GB	0.5 * 4.3GB
Internal Data Disks	0.5 * 4.3GB	0.5 * 4.3GB
SCSI ctrl integrated	NCR810	NCR810
SCSI ctrl 2, PCI slot	Qlogic IQ PCI-D	Qlogic IQ PCI-D
CPUs installed	1 * 275Mhz	2 * 275Mhz
Max# CPUs	4	4
Memory type/#slots	ECC2100/4	ECC2100/4
Memory typical installed	128MB	128MB (MS451-DA)
Maximum upgrade	2GB	2GB
Video card	PCI S3 (#9)	PCI S3 (#9)
Network Internal	none	none
Network added	100BT	100BT
CDROM	1	1
DAT	1	1
Floppy	1	1
Monitor	15"	15"
Second Serial	Duocom	Duocom
UPS	1400VA	1400VA

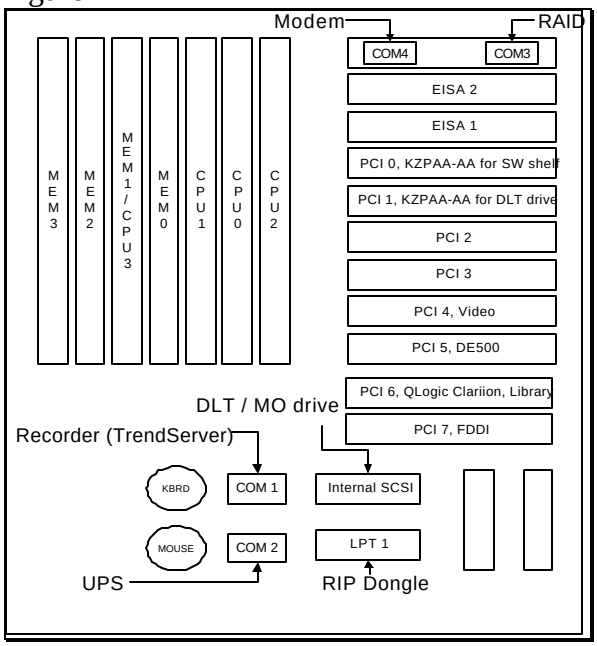
Figure 11



CreoServer 4000/40x0, PlateMaster 4500/45x0, TrendServer 4000/40x0 - Alpha 2100A

Creo Designation	4000	45x0
Synopsys Breakdown		
Alpha	2100A	2100A
Creo #	94-0030B	94-0026B
Dec #	2C-97x30-xx	2C-97x26-xx
Disk cabinet	BA356 with 5*2GB	
Internal System Disks	2 * 2.1GB	2 * 2GB
Internal Data Disks	0	0
SCSI ctrl internal	NCR810	NCR810
SCSI ctrl 2	Qlogic IQ PCI-D	Qlogic IQ PCI-D
SCSI ctrl 3	KZPAA-AA	KZPAA-AA
CPUs installed	1/2 * 275Mhz	1/2 * 275Mhz
Max# CPUs	4	4
Memory type/#slots	ECC2100/4	ECC2100/4
Memory typical installed	128MB	128MB MS451-DA
Maximum upgrade	2GB	2GB
Video card	PCI S3 (#9)	PCI S3 (#9)
Network Internal	none	none
Network added	100BT	100BT
CDROM	1	1
DAT	1	1
Floppy	1	1
Monitor	17"	17"
Second Serial	Duocom	Duocom
UPS	2200VA	2200VA

Figure 12

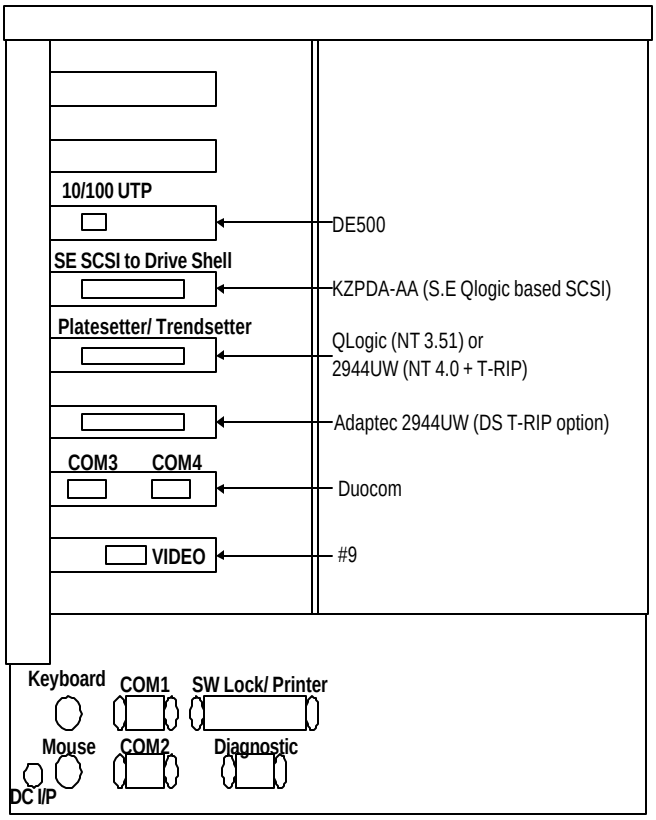


Allegro 2/300a, 2/400a

AlphaServer 4000

Creo Designation	2/300a	2/400a
Alpha	Alpha 4000	Alpha 4000
Creo #	94-3004A	94-3005A
Dec #	2C-97301-01	2C-97401-01
Disk cabinet	BA36R	BA36R
Internal System Disks	1*2GB	1*2GB
Internal Data Disks	1*4GB	1*4GB
SCSI ctrl integrated	NCR810	NCR810
SCSI ctrl 2	KZPDA	KZPDA
SCSI ctrl 3	Qlogic (or 2944UW)	Qlogic (or 2944UW)
SCSI ctrl 4	2944UW (T-RIP)	2944UW (T-RIP)
CPUs installed	1* 300Mhz	1* 400Mhz
Max# CPUs	2	2
Memory type/banks/#slots	ECC4000/ 2/4	ECC4000/ 2/4
Memory typical installed	128MB	128MB
Maximum upgrade	2GB	2GB
Video card	PCI S3 (#9)	PCI S3 (#9)
Network Internal	0	0
Network added	100BT	100BT
CDROM	1	1
DAT	TLZ09	TLZ09
Floppy	1	1
Monitor	15"	15"
Second Serial	Duocom	Duocom
UPS	2200VA	2200VA

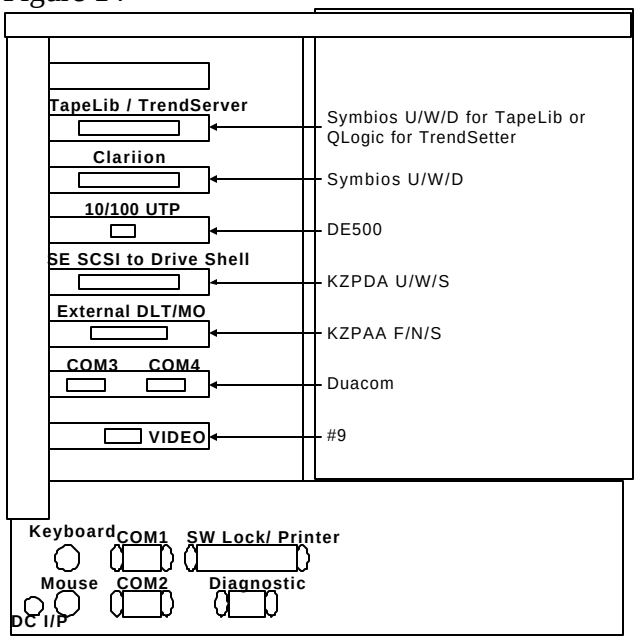
Figure 13



CREOSERVER/PLATEMASTER/TRENDSERVER 2/300A, 2/400A - **ALPHA SERVER 4000**

Creo Designation	2/300a-xx	2/400a-xx	2/300a-00	2/400a-00
Alpha	Alpha 4000	Alpha 4000	Alpha 4000	Alpha4000
Creo #	94-3008A	94-3009A	94-3006A	94-3007A
Dec #	2C-97302-01	2C-97402-01	2C-97303-01	2C-97403-01
Disk cabinet	BA36R	BA36R	BA36R	BA36R
Internal System Disks	2*2GB	2*2GB	2*2GB	2*2GB
Internal Data Disks	3*4GB	3*4GB	0	0
SCSI ctrl internal	KZPDA	KZPDA	KZPDA	KZPDA
SCSI ctrl 2	KZPAA	KZPAA	KZPAA	KZPAA
SCSI ctrl 3	Symbios	Symbios	Symbios	Symbios
SCSI ctrl 4				
CPUs installed	2* 300Mhz	2* 400Mhz	2* 300Mhz	2* 400Mhz
Max# CPUs	2	2	2	2
Memory type/banks/#slots	ECC4000/2/4	ECC4000/2/4	ECC4000/2/4	ECC4000/2/4
Memory typical installed	512MB	512MB	512MB	512MB
Maximum upgrade	2GB	2GB	2GB	2GB
Video card	PCI S3 (#9)	PCI S3 (#9)	PCI S3 (#9)	PCI S3 (#9)
Network Internal	0	0	0	0
Network added	100BT	100BT	100BT	100BT
CDROM	1	1	1	1
DAT	TLZ09	TLZ09	TLZ09	TLZ09
Floppy	1	1	1	1
Monitor	17"	17"	17"	17"
Second Serial	Duocom	Duocom	Duocom	Duocom
UPS	2200VA	2200VA	3000VA	3000VA

Figure 14

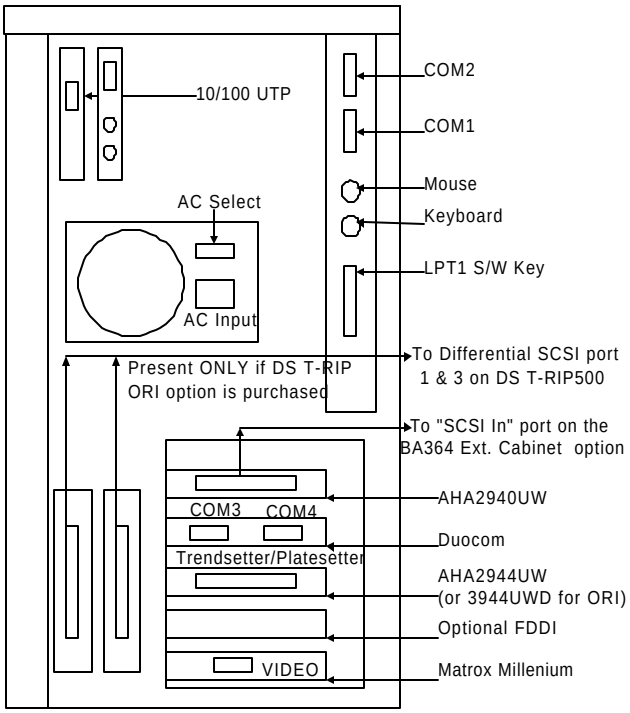


Allegro 1/433a

DEC Personal Workstation 433a or 500a

Creo Designation	1/ 433a
Alpha	DPW 433a
Creo #	94-
Dec #	2C-97M01-01
Disk cabinet	Optional BA364
Internal System Disks	1*2GB
Internal Data Disks	1*4GB or 1 * 9GB
SCSI ctrl 1 (PCI)	2940UW
SCSI ctrl 2	2944UW/ 3944UWD
CPUs installed	1* 433Mhz
Max# CPUs	1
Memory type/banks/#slots	SDRAM DIMM/3/6
Memory typical installed	128MB
Maximum upgrade	384MB
Video card	PCI Matrox Millennium
Network Internal	10/100BT
Network added	0
CDROM	1
DAT	TLZ09
Floppy	1
Monitor	15"
Second Serial	Duocom
UPS	1000VA

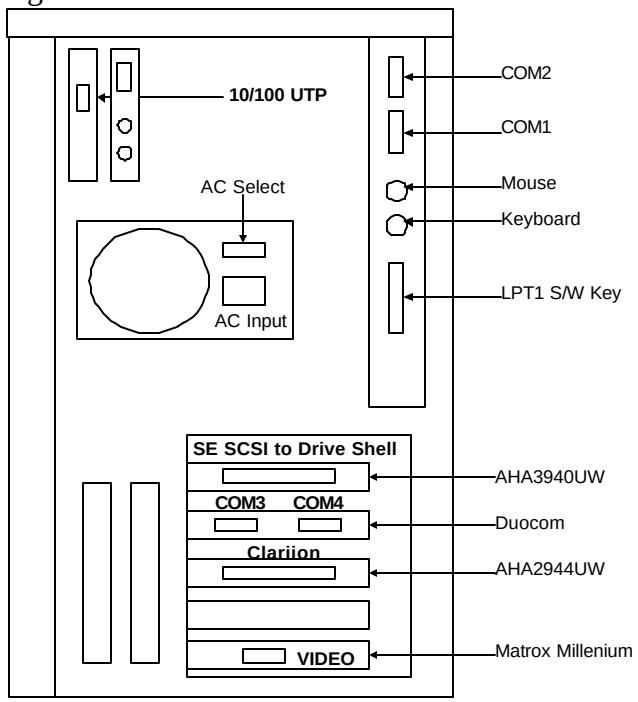
Figure 15



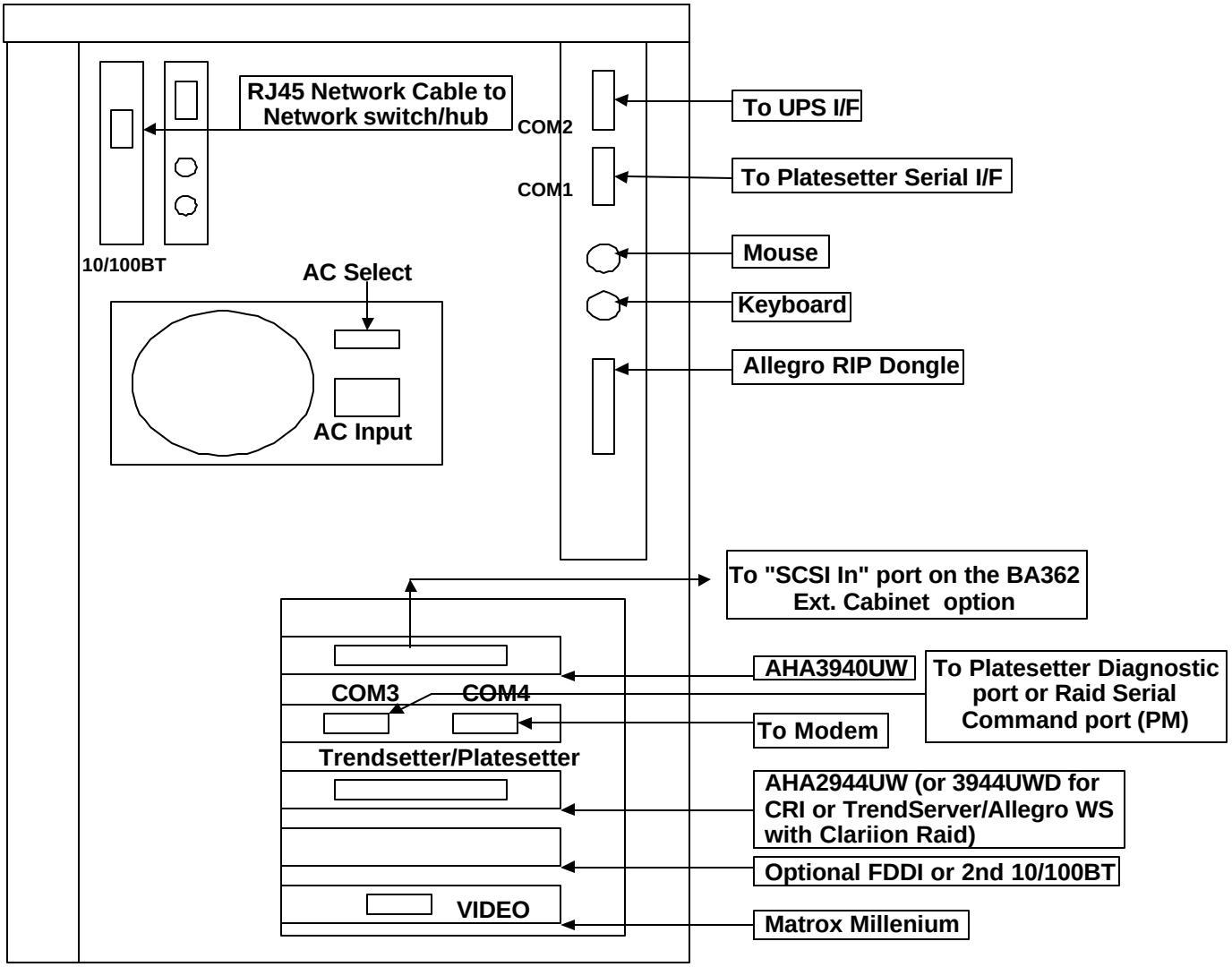
CreoServer/ TrendServer 1/433a or 1/500a - DEC Personal Workstation 433a or 500a

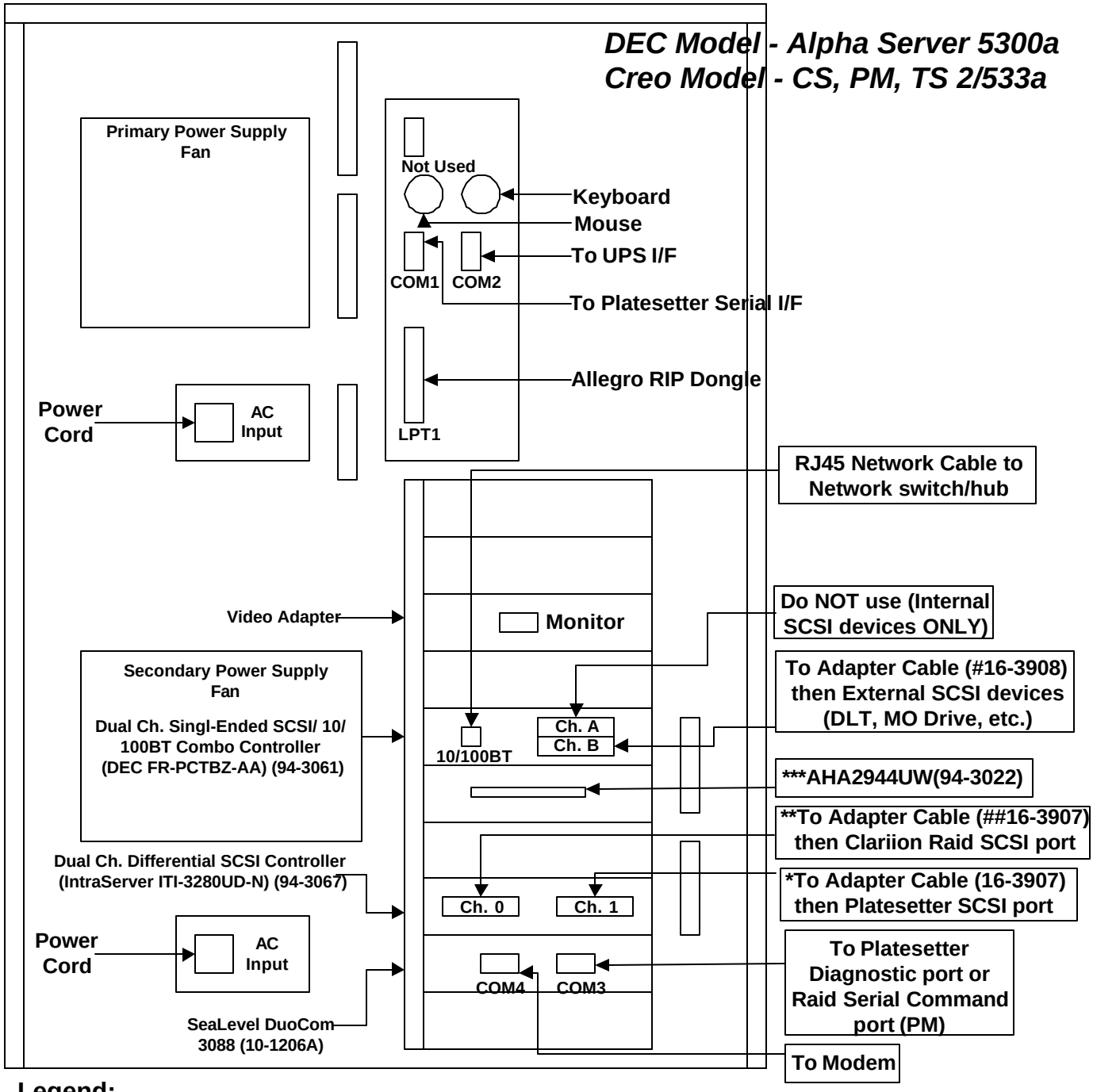
Creo Designation	1/ 433a
Alpha	DPW 433a
Creo #	94-
Dec #	2C-97M42-01
Disk cabinet	None
Internal System Disks	1*2GB
Internal Data Disks	1*9GB
SCSI ctrl 1 (PCI)	3940UWD
SCSI ctrl 2	2944UW/ 3944UWD
CPUs installed	1* 433Mhz or 500Mhz
Max# CPUs	1
Memory type/banks/#slots	SDRAM DIMM/3/6
Memory typical installed	256MB
Maximum upgrade	384MB
Video card	PCI Matrox Millennium
Network Internal	10/100BT
Network added	0
CDROM	1
DAT	none
Floppy	1
Monitor	17"
Second Serial	Duocom
UPS	1000VA

Figure 16



DEC Model - PWS 500a
Creo Model - AWS, CS 1/500a





Legend:

*** Denote to a PlateMaster Server, this Diff. SCSI port is connected to a Tape Library jukebox if ordered. OR it's used to connect to the 2nd SCSI port of the Dual SP Clariion Raid unit.**

**** Denote to a PlateMaster, this Diff. SCSI port is connected to the 1st SCSI port of the Dual SP Clariion Raid unit. To a TrendServer with Clariion Raid option, it's connected to the Clariion SCSI port.**

***** This AHA2944UW will be added when a Tape Library is required in addition to a Dual SP Clariion Raid unit.**

 # 16-3908, SCSI Adapter cable is VHD connector to 50pin mini D-Sub type, It's used to connect external SINGLE-ENDED SCSI devices such as Single DLT, MO drive, etc.

 # If DLT7000 or DEC StorageWorks BA262 (2 bay disk cabinet), then use adapter cable 16-3907 instead.

16-3907, SCSI Adapter cable is VHD connector to HD 68pin D-Sub type, It's used to connect external DIFFERENTIAL SCSI devices such Creo Platesetter/Trendsette, Clariion Raid devices.

Allegro / CreoServer / PlateMaster / TrendServer 2/533a

ALPHA SERVER 5300

Creo Name	Allegro	CreoServer	CreoServer
Creo Designation	2/533a	2/533a-00	2/533a-xx
Server	AS 5300	AS5300	AS5300
Creo #	94-3063A	94-3064A	94-3065A
Manufacturers Part#	2C-98Z51-01	2C-98Z52-01	2C-98Z53-01
#PCI Slots / shared	6 / 1	6 / 1	6 / 1
#EISA Slots / shared	1 / 1	1 / 1	1 / 1
Internal System Disks	1* 4GB U-SCSI	2* 4GB U-SCSI	2* 4GB U-SCSI
Internal Data Disks	1* 9GB U-SCSI	2* 9GB U-SCSI	
SCSI ctrl internal	ITI-3280-UE #1	ITI-3280-UE #1	ITI-3280-UE #1
SCSI ctrl 2	ITI-3280-UE #1	ITI-3280-UE #1	ITI-3280-UE #1
SCSI ctrl 3	ITI-3280-UD #2		ITI-3280-UD #2
SCSI ctrl 4	ITI-3280-UD #2		ITI-3280-UD #2
CPUs installed	1* 533Mhz	1* 533Mhz	1* 533Mhz
Max# CPUs	2	2	2
Memory type/banks/#slots	SDRAM DIMM/8/16	SDRAM DIMM/8/16	SDRAM DIMM/8/16
Memory typical installed	256MB	256MB	256MB
Maximum upgrade	2GB	2GB	2GB
Video card	PCI S3 (#9)	PCI S3 (#9)	PCI S3 (#9)
Network added	100BT (ITI 3280 #1)	100BT (ITI 3280 #1)	100BT (ITI 3280 #1)
CDROM	1	1	1
DAT	1	1	1
Floppy	1	1	1
Monitor	15"	17"	17"
Second Serial	Duocom	Duocom	Duocom
Drivers Disk	19-0266A-A	19-0266A-A	19-0266A-A
HAL Disk NT 4.0	19-0265A-A	19-0265A-A	19-0265A-A
UPS	1400VA	2200VA	2200VA
Plug Type	15A	30A	30A
Memory 128MB	12-4139	12-4139	12-4139
Memory 256MB	12-4157	12-4157	12-4157
CPU	94-3066	94-3066	94-3066

1.2.1 UPS requirements

Please ensure that the site has got a proper outlet for handling the UPS. The proper plugs are:

UPS Requirements

UPS Type	Plug Type			
	North American	Europe	Asia	Australia
1000	125V 15A nema 5-15	230V 10A iec320 c14	100V nema 5-15p	240V 10A iec320 c14
1400	125V 15A nema 5-15	230V 10A iec320 c14	100V nema 5-15p	240V 10A iec320 c14
2000	125V 15A nema 5-15	230V 10A iec320 c14	100V nema 5-20p	240V 10A iec320 c14
2200	125V 20A nema 5-20	230V 16A iec320 c20	not supported	240V 10A iec320 c20
3000	125V 30A nema 5-30	230V 16A iec320 c20	100V nema 5-20p	240V 10A iec320 c20

1.3 Drive Designations

For all the above platforms the disks are configured the same. This will give the same base platform for all the systems and make the software platform independent.

Allegro *PlateMaster, CreoServer*

Drive	Type	Information	Drive	Type	Information
			B:	Subst	Substitute T:\ for PlateMaster systems only.
C:	FAT	ALPHA OS loader ONLY	**C:**	FAT	ALPHA OS loader ONLY
			J:	Subst	Substitute to T: Pmaster 1.2 jobs directory. (PlateMaster only)
H:	N/A	CDROM	**H:**	N/A	CDROM
E: (**F:** on Allegro 1000)	NTFS	NT Operating system. Creo executables. Third party executables.	**S:**	NTFS	NT Operating system. Creo executables. Third party executables.
D:	NTFS	Data files + Job spooling folders	**T:**	NTFS	Databases (for PlateMaster). Jobs.

1.4 You Will Need

1. Cross-head Screwdriver.
2. Flat Head Screwdriver
3. Network Cable.
4. Software:

Allegro

Disk	Type	Ver	Comments	Systems
Windows NT	CD	4.0	Operating system	All
Workflow Systems	Flpy	1.9/ 3.5-4	ECU System Configuration Utility	Allegro 4000/5000 / Allegro 1000
Workflow SystemsDrivers Disk	Flpy	B,B	Drivers for DE500, FDDI, etc.	All
Workflow Systems Emergency Repair Disk	Flpy	N/A	Repair disk created later for each customer's machine	All

Workflow Systems PowerChute	CD or 3* Flpy	4.2.4	Drivers for UPS monitoring	All

CreoServer, PlateMaster

Disk	Type	Min Ver	Comments	Creo PN	Systems
Windows NT	CD	4.0	Operating system	None	All
NT4.0 Service Pack	CD	3	Service Pack 2 kit, Creo Version	19-3132	All
Workflow Systems Drivers Disk	Flpy	B,B	Drivers for Clariion, DE500/435, FDDI, Qlogic, SWXCR, Tape, Modem.	19-3033	All
Workflow Systems Emergency Repair Disk	Flpy	N/A	Repair disk created later for each customer's machine	83-0001	All
PowerChute	CD	5.0	Drivers for UPS monitoring	None	ALL with UPS's
Disk Base Cfg.	Flpy	1.0	DiskAdmin configuration of a C: & S: drive only configuration (machine specific)	83-0001	All
Disk Final Cfg.	Flpy	1.0	DiskAdmin configuration of a C: & S: and T: drives configuration (machine specific)	83-0001	All
ZLXP-E PowerStorm 3D30/4D40	Flpy		Graphics Driver	XX0134	AlphaStstion 500
CDROM Drivers Disk	Flpy	AA	IDE CDROM Driver	XX0142	DPW433 or DPW500
Workflow Systems Digital ECU	Flpy	3.5-4	EISA bus configuration for AXP-150	XX-0122	AXP-150
Workflow Systems Digital ECU	Flpy	1.10	EISA bus configuration for 2100/a	19-3037	2100/a
AlphaServer 1000A, 2100A. Found in Windows NT box	Flpy		Machine specific HAL codes	XX0127	All but 5300
AlphaServer 5300 HAL	Flpy		5300 specific HAL codes	190265	5300
5300 Drivers Disk	Flpy	AA	Drivers Disk	190266	5300

2. SYSTEM OVERVIEW

2.1 Introduction

The Allegro Workstation is a high performance workstation used to drive Creo's line of Computer-To-Plate (CTP) recorders. They are based on Digital Equipment Corporation Alpha workstations running Microsoft's Windows NT operating system. The workstation perform two main functions:

- Provide high level control for the Platesetter system. Command and status exchanges between workstation and recorder take place over a RS232 serial interface.

Receive PostScript files over an industry standard LAN, generate Raster data for the recorder using a PostScript Level 2 software RIP, then send the data to the recorder over a SCSI bus interface.

Since this procedure will cover all of the WFS platforms, some of the following sections will be platform dependent. If you see at a heading (non 2100a) for example skip the section for that heading only. Start at the very next heading. Please do not confuse Alpha 4000 with a CreoServer 4000. An Alpha 4000 has 2*300Mhz, 2*400Mhz or 2* 466Mhz CPUs where a CreoServer 4000 is an Alpha 2100/A with 2*275Mhz or 2* 375Mhz CPUs.

Before starting the installation procedure, go through the checklist document, and make sure that you know what hardware/software is required for the system. This can have a large influence on the setup, so don't ignore it!

There are 2 types of BIOS for the Alpha platforms. These firmware types will be referenced throughout this installation document. You should know which one is being used by your platform. The two types are;

1. ARC Firmware. This includes all platforms except Alpha 4000 and DPW433A.
2. AlphaBIOS. This is a GUI that is available on new DEC Platforms including Alpha 4000 and DPW433A.

2.2 Connect Hardware

You must configure the following before installing NT.

1. Connect any external hardware as listed in section 1.2 starting on page 1.
2. Install additional network cards if requested by customer.
3. Add additional CPU's and memory boards as requested by the customer.
4. Connect USR Sportster 36.6 modem if applicable to COM4. If this is not a North American machine the modem should be removed later and returned to stock.
5. Connect Low Res. Alpha dongle to LPT1 port. Applies to all machines being configured with RIP software.
6. Ensure that the Duocom Serial port adapter's jumpers and DIP switch settings are set according to the following figure:

Figure 2
Duocom Configuration for Alpha 2100/A machines

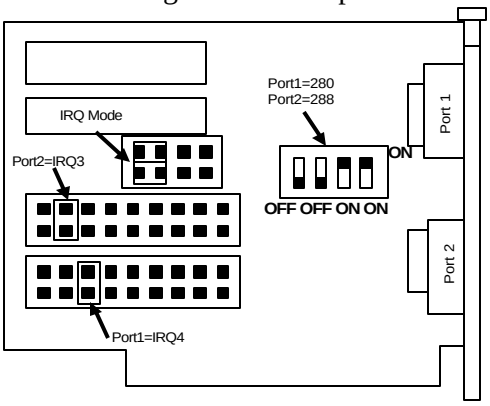
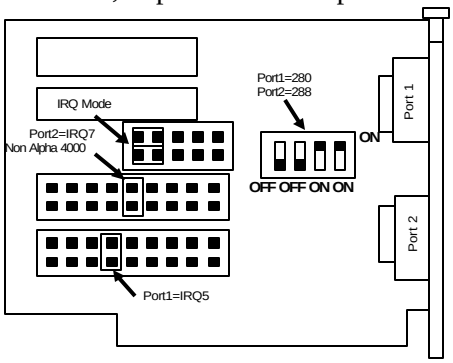
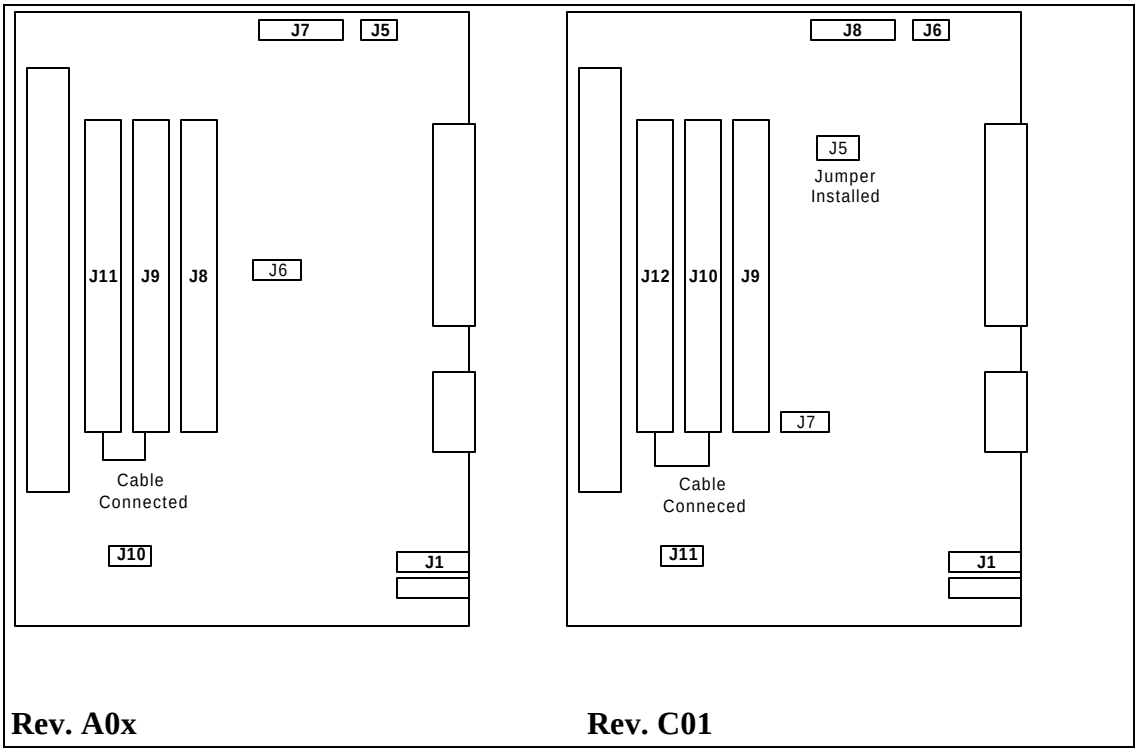


Figure 3
Duocom Configuration for Alpha 5300, ETN30, DPW433, Alpha 400 and Alpha 4000 machines



2.2.1 AlphaServer 4000's Serial COMBO Module:

The COMBO card is located in the PCI expansion box and the 2 revisions are shown in following figure which is configured to disable COM1's Remote ON/OFF Control:



- On Revision C01 card, verify that the flat cable is connected between J10 and J12. And header J5 has jumper installed to set remote ON/OFF control to DISABLED.
- On Revision A0x card, verify that the flat cable is connected between J9 and J11. There's no J5 equivalent function on this revision.

2.3 UPS connection

This applies to all Alpha 4000, Alpha 2100/A and ETN30 systems

1. For 2000VA units only, connect UPS battery to UPS via cable with red connector inside the cabinet.
2. The following should be connected to the UPS.
   a) Alpha CPU module.
   b) Monitor.
   c) Modem adapter.
   d) Clariion (if required).
   e) Other optional peripherals.
   f) Tape Library (if required). Note that if you have a 30 bay Clariion you should not connect the library to the UPS since it may draw too much power.

3. For the 2200VA, the UPS should have a 20A NEMA 5-20 plug. A custom adapter plug will allow you to plug into a 120vac 15A wall socket.
4. For the 3000VA, the UPS should have a 30A NEMA 5-30 plug. A custom adapter plug will allow you to plug into a 120vac 15A wall socket.
5. For the 1000VA/1400VA, the UPS should have a 15A NEMA 5-15 plug.

2.4 System Installation

The basic steps in assembling and configuring the system are as follows:

1. Install and configure the hardware
2. Do low-level firmware and software setups
3. Install Windows NT
4. Configure NT System
5. Install UPS software

2.5 System Preparation

Prepare the following:

1. A blank 3.5” floppy disk and label it '**Windows NT 4.0 Repair Disk for XX###** where XX is the unit type (CS, CW, PM, TS) and ### is the unit number.
2. Flat-head and Phillips Screwdrivers
3. Network cable(s)
4. Software and Drivers:
   - A **Windows NT** CD and **Alpha Hardware Support** Disk(s)
   - The latest **WFS Drivers Disk** diskette.
   - Windows NT 4.0 US Service Pack 3 (check with Engineering for new version from time to time).

2.6 Hardware Overview

The hardware configurations are as following:

- High-density (1.44-MB) 3 1/2-inch floppy disk drive
- CD-ROM drive
- 4GB DAT Tape drive
- SCSI host adapters:

- ***Alpha Server 5300 (Allegro, CreoServer, PlateMaster 2/5300a)***
    - Dual Ch. Singl-Ended SCSI/ 10/100BT Combo Controller (DEC FR-PCTBZ-AA) (94-3061) – has ch. A used for internal SCSI devices and ch. B will be used for external DLT, MO Drive etc.
    - IntraServer ITI-3280UD-N (Dual Ch. Differential SCSI Controller - 94-3067) is installed for single SP Clariion Raid and/or Tape Library
    - AHA2944UW will be added when a Tape Library is required in addition to a Dual SP Clariion Raid unit.

- ***DEC Personal Workstation 433a (Allegro, CreoServer, PlateMaster 1/433a, 1/500a)***
    - Adaptec AHA2940UW is installed for system disks/peripherals and
    - Adaptec AHA2944UW, a Differential and Wide SCSI controller is used for data interfacing with the CTP Recorder

      or
    - Adaptec AHA3944UWD, a dual-channel Differential/Wide SCSI controller is used for data interfacing with the CTP Recorder and DS T-RIP interface configuration or TrendServer with Clariion Raid
- ***AlphaServer 4000 (Allegro, CreoServer, PlateMaster 2/300a, 2/400a)***
    - Onboard integrated NCR 53C810 SCSI controller is connected to CD-ROM
    - DEC KZPDA (16-Bit SE Qlogic SCSI controller chip) is installed for system disks/peripherals
    - Qlogic Fast!SCSI IQ PCI - D, a Wide Differential SCSI controller is installed for image data interfacing to the CTP Recorder (NT 3.51)

      or
    - Adaptec AHA2944UW, a Differential and Wide SCSI controller is used for data interfacing with the CTP Recorder (supports NT 4.0 ONLY and a second controller is required for Dainippon Screen T-RIP interface configuration)
- ***AlphaServer 2100A/2100 (Allegro, CreoServer, PlateMaster 4000/5000)***
    - Onboard integrated NCR 53C810 SCSI controller is connected to CD-ROM and system disks/peripherals (DAT tape, etc.)
    - Qlogic Fast!SCSI IQ PCI - D, a Wide Differential SCSI controller is installed for image data interfacing to the CTP Recorder
- ***ETN30 (Allegro3000)***
    - DEC PCI Qlogic SCSI controller chip based controller (KZPDA-AA) is connected to CD-ROM and system disks/peripherals (DAT tape, etc.)
    - Qlogic Fast!SCSI IQ PCI - D, a Wide Differential SCSI controller is installed for image data interfacing to the CTP Recorder
- ***AlphaServer/Station 400 (Allegro 1100/2000)***

- Onboard integrated NCR 53C810 SCSI controller is connected to CD-ROM and system disks/peripherals (DAT tape, etc.)
- Qlogic Fast!SCSI IQ PCI - D, a Wide Differential SCSI controller is installed for image data interfacing to the CTP Recorder

- ***AlphaAXP 150 (Allegro 1000)***
  - Adaptec EISA AHA1740 SCSI controller is connected to CD-ROM and system disks/peripherals (QIC tape, etc.)
  - Adaptec EISA AHA2740W, a Wide SCSI controller is installed for image data interfacing to the CTP Recorder through a Single Ended to Differential SCSI converter.
- Video Graphics Display adapter
- Local Area Network adapter (10/100BaseTX or FDDI on PCI bus)
- 15" flat screen, Energy Star compatible color monitor

Refer to Figures1 to 7 for the rear view of the workstation. Also see the table below for all COM port assignments:

COM Port #	COM1	COM2	COM3	COM4
Interface Device	CTP Recorder I/F	UPS	Recorder's Diagnostic	Modem

TABLE: COM PORTS ASSIGNMENTS

- **Drives:**

Allegro 1/433a, 2/x00a:

Two separated internal SCSI drives (2GB and 4GB) with the following settings:

1. Hard Drive0 (SCSI ID = 0), is partitioned into 2 Logical drives:
   - C = 10MB, File System MUST be FAT (NT OSLOADER files ONLY).
   - E = Remaining, File System is NTFS (NT System Files + Creo Software).
2. Hard Drive1 (SCSI ID = 1), is partitioned into 1 single partition:
   - D = 4GB, File System is NTFS (PostScript Data files)

   Other SCSI devices MUST be configured as below:
   - The CD-ROM drive (IDE interface for Allegro 1/433a ONLY) (SCSI ID = 5 for 2/300a, 2/400a).
   - The DAT drive (SCSI ID = 2).

Allegro 4000/5000:

Two separated internal SCSI drives (1GB and 2GB Differential SCSI) or one single 4GB drive with the following settings:

1. Hard Drive0 (SCSI ID = 0), is partitioned into 2 logical drives:

- C = 10MB, File System MUST be FAT (NT OSLOADER files ONLY).
- E = Remaining, File System is NTFS (NT System Files + Creo Software).

Or

Single 4GB drive is partitioned into 3 logic drives:

- C = 10MB, File System MUST be FAT (NT OSLOADER files ONLY).
- E = 2GB, File System is NTFS (NT System Files + Creo Software).
- D = 2GB, File System is NTFS (PostScript Data files)

2. Hard Drive1 (SCSI ID = 1), is partitioned into 1 single partition:
   - D = 2GB, File System is NTFS (PostScript Data files)

   Other SCSI devices MUST be configured as below:
   - The CD-ROM drive (SCSI ID = 5).
   - The DAT drive (SCSI ID = 4).

Allegro 3000*:*

Two separated internal SCSI drives (2 * 2GB) with the following settings:

1. Hard Drive0 (SCSI ID = 0), is partitioned into 2 Logical drives:
   - C = 10MB, File System MUST be FAT (NT OSLOADER files ONLY).
   - E = Remaining, File System is NTFS (NT System Files + Creo Software).
2. Hard Drive1 (SCSI ID = 1), is partitioned into 1 single partition:
   - D = 2GB, File System is NTFS (PostScript Data files)

   Other SCSI devices MUST be configured as below:
   - The CD-ROM drive (SCSI ID = 5).
   - The DAT drive (SCSI ID = 4).

Allegro 1100/2000*:*

Two separated internal SCSI drives (2 * 1GB) with the following settings:

1. Hard Drive0 (SCSI ID = 0), is partitioned into 2 Logical drives:
   - C = 10MB, File System MUST be FAT (NT OSLOADER files ONLY).
   - E = Remaining, File System is NTFS (NT System Files + Creo Software).
2. Hard Drive1 (SCSI ID = 1), is partitioned into 1 single partition:
   - D = 1GB, File System is NTFS (PostScript Data files)

Other SCSI devices MUST be configured as below:

- The CD-ROM drive (SCSI ID = 5).
- The DAT drive (SCSI ID = 4).

Allegro 1000:

Three separated internal SCSI drives (3 * 500MB) with the following settings:

1. Hard Drive0 (SCSI ID = 0), is partitioned into 2 Logical drives:
   - C = 10MB, File System MUST be FAT (NT OSLOADER files ONLY).
   - F = Remaining, File System is NTFS (NT System Files).
2. Hard Drive1 (SCSI ID = 1), is partitioned into 1 single partition:
   - E = 500MB, File System is NTFS (Allegro Workstation Software)
3. Hard Drive2 (SCSI ID = 2), is partitioned into 1 single partition:
   - D = 500MB, File System is NTFS (PostScript Data files)

   Other SCSI devices MUST be configured as below:
   - The CD-ROM drive (SCSI ID = 5).
   - The QIC drive if installed (SCSI ID = 4).

SCSI bus termination standard MUST be followed where termination resistor(s) is installed ONLY on the very two extreme ends of the SCSI chain. i.e. All SCSI devices in the middle of the SCSI chain MUST have their termination resistor(s) removed.

2.6.1 Setup

All Allegro Workstations are to be setup to provide the following functions:

- CTP recorder control via serial RS232 interface.
- CTP recorder diagnostic functions via serial RS232 interface.
- Interface to front end systems such as the Creo PlateMaster server.
- System software functions including the software RIP called Allegro.
- Raster bitmap data interface to the recorder via SCSI interface.

2.6.2 Network

In most cases, the default network connection is configured for 10/100BaseTX depending on the local network type. FDDI and CDDI options are also available.

2.7 Low Level Firmware/Software Setup

This procedure assumes you are familiar with the ARC console and basic DEC Alpha installation procedures.

2.7.1 Verify Firmware Level

Below is a listing of the minimum AlphaBios/Arc and SRM firmware revs for the different WFS platforms for supporting NT 4.0.

Table 1 Alpha FW Versions

Platform	Bios Type	Bios Version
Alpha 400 (CS 2000)	ARC	4.49
ETN-30 (CS 3000)	ARC	4.49
Alpha 500 (1/400a)	ARC	4.49
Alpha DPW 433A (1/433a)	AlphaBIOS	5.33
Alpha 2100/A (CS 4000)	ARC	4.47-2
Alpha 4000 (CS 2/300a)	AlphaBIOS	5.24

If your system does not match the above minimum revs you must follow the Upgrading ARC/AlphaBios Firmware procedure XX-0121AE available on the Intranet.

It is a good idea to keep the FirmWare up to the latest rev found on the Creo Intranet but is not manditory. Doing the firmware update not only updates the code in the Server but also updates firmware in some of the other controllers such as FDDI, 100BaseT, SCSI, etc. Normally the firmware is not updated by a Creo tech but is done by a DEC Service tech if there is a problem with the system. Do a DEC Service call if there is a problem with the Server and ask the tech while they're at the site to update the FW if required. There are procedures available from Creo to update the FW but a CD is usually required and we don't have extra copies (they do not copy). To check the firmware versions do the folowing;

1. Machines with a Halt button (Alpha 2100, 4000, 5300)
    a) Boot the machine with the HALT button pressed in.
    b) The machine will boot to the command prompt. The screen should show an SRM version and an ARC or AlphaBIOS version in the bootup sequence before the command prompt.
    c) Release the Halt button.
2. Machines with no Halt button.
    a) Boot to the ARC prompt (where the prompt to boot into NT is) and wait there.
    b) At the ARC prompt select **Supplementary Menu.**

i) Select **Setup the system.**

ii) Select **Machine Specific Setup**

iii) Select **Switch to Open VMS.**

c) Reboot the Server.

d) After determining the FW version switch back to NT.

i) Select **Supplementary Menu.**

ii) Select **Setup the system.**

iii) Select **Machine Specific Setup**

iv) Select **Switch to NT.**

e) Reboot the Server.

2.7.2 Alpha LED Display Setup (Alpha 2100/A, 4000, 5300 systems only)

1. Boot the machine with the HALT button pressed in.
2. At the prompt, type: **set ocp_text** to **OCP_Prefix-OCP_Suffix** as per the below tables.
3. At the prompt, type: **set pci_read_mult off**.
4. Release the HALT button, and reboot.

Table 2 OCP_Prefix

Platform	OCP Prefix
CreoServer	CS
PlateMaster	PM
TrendServer	TS
Overture	CS

Table 3 OCP_Suffix

Platform	OCP Suffix
Alpha 2100/A 275Mhz	4/275a
Alpha 2100/A 375Mhz	4/375a
Alpha 4000 300Mhz	2/300a
Alpha 4000 400Mhz	2/400a
Alpha 4000 466 Mhz	2/466a
Alpha 5300 533 Mhz	2/533a

2.7.3 EISA Config Utility (ECU) (Alpha2100/A)

Table 4 EISA Resource Allocations

Platform	Port Resources	IRQ COM3	IRQ COM4
Alpha 2100/A	280 - 28Fh	4	3

1. Put the NT ECU floppy in the drive.
   a) Select **Supplementary Menu.**
      i) Select **Set up the system.**
      ii) Select **Run EISA config utility.**
2. Press **Enter** to go into program.
   a) Set the DuoCom card slot (if applicable). Use the above system configuration figures to determine the EISA slot number.
      i) Select 2 **Add remove card**.
      ii) Select the appropriate slot and hit <CR>.
      iii) Hit **OK** to the Configuration File list prompt. This could take about 5 minutes.
      iv) Select **!ISA0000.CFG Generic ISA Adapter Definition** from the list and hit <CR>.
      v) Hit <CR> to the **Add Confirm** prompt.
      vi) Hit <CR> to appropriate Slot.
      vii) Select **Step3: View or edit details**.
      viii) Move the cursor to **Slot#3** and hit **<Enter>**.
         (a) Select **ISA I/O Port Resource Allocation** and hit **<F6>** to edit resources.
            (1) Use the '**+**' and '**-**' keys to select the **Address** listed in **Table 4 EISA Resource Allocations** for the appropriate platform and hit **<F10>** when done.
         (b) Select **ISA IRQ Resource** and hit **<F6>** to edit resources.
            (1) Use the '**+**' and '**-**' keys to select the **IRQ** listed in **Table 4 EISA Resource Allocations** for the appropriate platform and hit **<F10>** when done.
   b) Press "F10" key to exit.

3. Set the video card slot (**For Alpha2100 NON A version only**)

   a) Select 2 **Add remove card**.

   b) Select slot 1 (where the video card should be living) and hit <CR>.

   c) Hit **OK** to the Configuration File list prompt.

   d) Select **!ISA0000.CFG Generic ISA Adapter Definition** from the list and hit <CR>.

   e) Hit <CR> to the **Add Confirm** prompt.

   f) Hit <CR> to **Slot x** where x is the slot number.

4. Save and exit the EISA config.

   a) Hit **<F10>** to save current options.

   b) Select **Save and exit.**

   c) Select **Save the Configuration**.

   d) Select **OK** to exit**.**

5. Reboot the machine by pressing the hardware RESET key.

2.7.4 Qlogic Setup (Alpha 2100/A, ETN30) or (Alpha 4000 (with TrendServer))

The Qlogic host and device interface needs to be configured at the ARC level to match the devices to be connected to it.

1. To get into Qlogic configuration program do the following.

   a) Put in the **Workflow SystemsDrivers Disk** floppy.

   b) From the Arc console select **RUN Program**.

   c) Type the program **A:\QLOGIC\EEROMCFG**.

   d) Select **Select ISP1020** and hit **O** for **OK**.

2. Load defaults for all the parameters.

   a) In the **Configuring EEROM Parameters** menu select **L** for **Load Default EEROM Parameters**.

   b) Select **Y** for the warning.

3. Modify the **Host** configuration as follows. Note that you can use the arrow keys to move around and select menu options.

   a) In the **Configuring EEROM Parameters** menu select **H** for modifying the host parameters.

   b) Ensure all settings are equal to the defaults except for;

      i) Bus Reset Delay 3 instead of 1

ii) Retry Count 5 instead of 0

iii) Retry Delay 5 instead of 1

c) Hit **O** for **OK** to accept parameters.

d) Hit **Y** to update EEROM.

4. Modify the **Device** configuration as follows.

a) In the **Configuring EEROM Parameters** menu select **D** for modifying the Device parameters.

b) For all devices from DEV0 to DEV15 ensure that all the parameters are set to default with the following exceptions.

i) For all devices except DEV1 set Wide to 0.

c) Hit **O** for **OK** to accept parameters.

d) Hit **Y** to update EEROM.

e) Hit **X** to **Exit**.

f) Hit **X** again to **Exit**.

g) Hit **O** for **OK** to accept updates.

5. Reboot to machine by hitting the Reset key.

2.7.5 Create Boot Partition with ARCINST

There are 2 methods here;

AlphaBios setup (DEC PWS 433a, 500a AlphaServer 4000, 5300):

From AlphaBIOS Setup menu:

1. Select "Hard Disk Setup..." option and press <CR>, delete all existing partitions on both Disk 0 & 1 using [Del] key.
2. Select Disk 0 unused space and press [Insert], type in “10” in the “New Partition Size” field & press <CR>.
3. Select Disk 0 Partition 1 (10MB) & press [F6] key, then select “Standard Format”, press <CR>, [F10] to proceed with the format. Press <CR> when it’s done.
4. Press [ESC] to exit Hard Disk setup menu, Power cycle the system and wait for AlphaBIOS Setup screen to appear

ARC setup (AlphaServer 2100A/2100, ETN30, AlphaServer/Station 400 and Alpha AXP 150):

1. Boot the system into **ARC** console

2. If this is **NOT** a fresh install delete all the boot selections for ARCINST to run properly.

   a) Select **Supplementary Menu.**

   b) Select **Set up the System.**

   c) Select **Manage Boot Selections.**

   d) Select **Delete a Selection.**

   - Delete all boot selections that can be found.
   - Save the configuration when done.

3. Put NT 4.0 CD in drive to run ARCINST

   a) Select **Run a Program.**

   b) Type "**CD:\ALPHA\ARCINST"** <CR>

4. Delete all existing partitions on all drives.

   a) Select **Configure Partitions.**

   b) Select **Delete Partition.**

   c) Delete **ALL** partitions found on **ALL** the drives.

      i) Do this by selecting a drive and hitting **Enter**.

      ii) Select a partition and hit **Enter.**

      iii) Hit **'Y'** to accept deleting the partition.

   d) If there were pre-existing partitions, it is a good idea to Exit and Reboot the machine at this stage.

5. To create a system boot partition. At the ARC menu.

   a) Select **Run a Program**

   b) Type **CD:\ALPHA\ARCINST** <CR>

   c) Select **Configure Partitions**

   d) Select **Create System Partition.**

   e) Select **SCSI Bus0, ID0, Disk0.**

   f) Set size to **10**MB.

   g) Make partition into system partition if prompted.

6. Exit ARCINST utility and **power cycle** (for 10 sec) the machine.

2.7.6 Update OS Selection Setup Procedure (AlphaBIOS)

The following procedures is used to update NVRAM's (or CMOS) hardware information in the NT OS Selection Setup menu about changes of SCSI controllers (such as remove/add a new controller, changing controller's slot, etc.) This will help the system updating its boot information about where to look for NT OSLOADER & related system files in order to boot.

1. Select "Utilities.OS Selection Setup..."
2. Press <CR> until the "Operating System Selection Setup" menu displayed
3. Examine the "Primary Operating System" is current version of Windows NT and the information about the OS is as follow:

Boot Name: Windows NT Server 4.0

Boot File: Disk 0, Partition 1 \OS\WINNT40\OSLOADER.EXE

OS Path: Disk 0, Partition 2 \WINNT

OS Options:

4. Press [F10] to save the changes, <CR> confirm and exit the menu.
5. Press [ESC] until the boot screen appears and press <CR> to boot NT.

2.7.7 EEPROM Parameter Programming (if Qlogic SCSI is installed)

AlphaServer 4000:

- Insert the **WFS Drivers Disk Rev. J** diskette into the floppy drive.
- Press [F2] key to invoke "Setup" menu.
- Select "Utilities.Run Maintenance Program..." option from the Setup menu.
- Type in "**QLOGIC\1040\EEROMCFG**" in the "Program Name:" field and press <CR> to invoke the controller's EEPROM Programming utility.
- Select "Bus1. Virtual Slot 0" and press "**O**" Key.
- Press "**H**" to select to modify the (H)ost operating parameters according to the following settings:

2, 1, 7, 3, 8, 5, 6, 1, 1, 1, 1, 8, 1, 1, 250, 256, 0.

- Press "**D**" to select to modify the (D)evices operating parameters according to the following settings (except the "**Stop Queue Check Condition**" is set to **0**):

1, 1, 1, 1, 1, 1, 1, 1, 16, 25, 12, 1 for DEV0 to DEV15.

- Exit and save the settings from the menu when done with the modifications.

AlphaServer 2100A/2100, ETN30, AlphaServer/Station 400:

- Insert the **WFS Drivers Disk Rev. J** diskette into the floppy drive.
- From the Arc console select **RUN A Program**.
- Type the program **A:\QLOGIC\1040\EEROMCFG**.
- Select **Select ISP1020** and hit **O** for **OK**.
- Press "**H**" to select to modify the (H)ost operating parameters according to the following settings:

2, 1, 7, 3, 8, 5, 6, 1, 1, 1, 1, 8, 1, 1, 250, 256, 0.

- Press "**D**" to select to modify the (D)evices operating parameters according to the following settings (except the "**Stop Queue Check Condition**" is set to **0**):

1, 1, 1, 1, 1, 1, 1, 1, 16, 25, 12, 1 for DEV0 to DEV15.

- Exit and save the settings from the menu when done with the modifications.

2.7.8 Hard Disk Partitioning

DEC PWS 433a and AlphaServer 4000:

From AlphaBIOS Setup menu:

1. Select "Hard Disk Setup..." option and press <CR>, delete all existing partitions on both Disk 0 & 1 using [Del] key.
2. Select Disk 0 unused space and press [Insert], type in "10" in the "New Partition Size" field & press <CR>.
3. Select Disk 0 Partition 1 (10MB) & press [F6] key, then select "Standard Format", press <CR>, [F10] to proceed with the format. Press <CR> when it's done.
4. Press [ESC] to exit Hard Disk setup menu, Power cycle the system and wait for AlphaBIOS Setup screen to appear

AlphaServer 2100A/2100, ETN30, AlphaServer/Station 400 and Alpha AXP 150:

1. Boot the system into **ARC** console
2. If this is **NOT** a fresh install delete all the boot selections for ARCINST to run properly.
   a) Select **Supplementary Menu.**
   b) Select **Set up the System.**
   c) Select **Manage Boot Selections.**
   d) Select **Delete a Selection.**
      - Delete all boot selections that can be found.
      - Save the configuration when done.

- Reboot the machine.

3. Put NT 4.0 CD in drive to run ARCINST
   a) Select **Run a Program.**
   b) Type "**CD:\ALPHA\ARCINST"** <CR>
4. Delete all existing partitions on all drives.
   a) Select **Configure Partitions.**
   b) Select **Delete Partition.**
   c) Delete **ALL** partitions found on **ALL** the drives.
      i) Do this by selecting a drive and hitting **Enter**.
      ii) Select a partition and hit **Enter.**
      iii) Hit **'Y'** to accept deleting the partition.
   d) If there were pre-existing partitions, it is a good idea to reboot the machine at this stage.
5. To create a system boot partition. At the ARC menu.
   a) Select **Run a Program**
   b) Type **CD:\ALPHA\ARCINST** <CR>
   c) Select **Configure Partitions**
   d) Select **Create System Partition.**
   e) Select **SCSI Bus0, ID0, Disk0.**
   f) Set size to **10**MB.
   g) Make partition into system partition if prompted.
6. Exit ARCINST utility and **power cycle** (for 10 sec) the machine.

3. INSTALLING NT 4.0 SERVER

3.1.1 Configuring Installation for NT

1. Starting the Installation. Choose one of the following platforms.

   DEC PWS 433a:

   (i) From AlphaBIOS Setup menu, insert **Windows NT Server CD** into drive.

   (ii) Select "**Install Windows NT**" <CR>.

(iii) Select "**Other**" <CR>, Insert the "**Cache Module Support Diskette - HAL Update"** floppy into drive and press <CR>, Select **Digital Personal Workstation a-Series** <CR>

(iv) At the "**Specify Additional Devices**" prompt,

(v) Insert the **CMD CSA-64xx IDE CD-ROM** floppy into drive, Press "**S**", Select "**Other**" & press <CR>, <CR>, then select **CMD CSA-64xx IDE Driver** <CR>

(vi) The "**Specify Additional Devices**" screen appears again, hit <CR>

(vii) At the "**Welcome to Setup**" screen, press <CR>

(viii) The "**Mass Storage Devices list**" screen appears again, hit <CR>

(ix) Press <Page Down> to the bottom of the license agreement and hit <F8>

(x) At the "**Computer Hardware and Software Components**" prompt, press <CR> and go to step 2

AlphaServer 5300:

(i) From AlphaBIOS Setup menu, insert **Windows NT Server CD** into drive.

(ii) Select "**Install Windows NT**" <CR>.

(iii) Press <CR> at the "**Welcome to Setup**" screen.

(iv) Press <CR> at the "**Specify Additional Devices**" prompt.

(v) Press <Page Down> to the bottom of the license agreement and hit <F8>.

(vi) At the "**Computer hardware and software components** move the cursor up to the **Computer Type** & press <CR>

(vii) Move the cursor down to select "**Other**" <CR>

(viii) Insert the "**Alpha Hardware Support Disk for Microsoft Windows NT 4.0"** floppy (part #: 190265A) into drive and press <CR>

(ix) Select **Digital AlphaServer 5300 - 5 - Multiprocessor** <CR>, <CR> and go to step 2

AlphaServer 4000:

(i) From AlphaBIOS Setup menu, insert **Windows NT Server CD** into drive.

(ii) Select "**Install Windows NT**" <CR>.

(iii) Press <CR> at the "**Welcome to Setup**" screen

(iv) Press <CR> at the "**Specify Additional Devices**" prompt

(v) Press <Page Down> to the bottom of the license agreement and hit <F8>.

(vi) At the "**Computer hardware and software components**" prompt move the cursor up to the **Computer Type** & press <CR>

(vii) Move the cursor down to select "**Other**" <CR>

(viii) Insert the "**Alpha Hardware Support Disk for Microsoft Windows NT 4.0"** floppy into drive and press <CR>

(ix) Select **Digital AlphaServer 4100 - 5 - Multiprocessor** <CR>, <CR> and go to step 2

AlphaServer 2100A:

(i) From ARC Setup menu, insert Windows NT Server CD into drive.

(ii) Select "Supplementary menu…" <CR>.

(iii) Select "Install Windows NT from CD-ROM" <CR>

(iv) Press <CR> at the "**Welcome to Setup**" screen

(v) Press <CR> at the "**Specify Additional Devices**" prompt

(vi) Press <Page Down> to the bottom of the license agreement and hit <F8>.

(vii) At the "**Computer hardware and software components**" prompt select 1 of the following;

(1) For **275Mhz** CPUs select **Digital AlphaServer 2100A - 4/xxx** <CR>, <CR> and go to step 2

(2) For **375Mhz** CPUs select **Digital AlphaServer 2100A - 5/xxx** <CR>, <CR> and go to step 2

AlphaServer 2100:

(i) From ARC Setup menu, insert Windows NT Server CD into drive.

(ii) Select "Supplementary menu…" <CR>.

(iii) Select "Install Windows NT from CD-ROM" <CR>

(iv) Press <CR> at the "**Welcome to Setup**" screen

(v) Press <CR> at the "**Specify Additional Devices**" prompt

(vi) Press <Page Down> to the bottom of the license agreement and hit <F8>.

(vii) At the "**Computer hardware and software components**" prompt select 1 of the following.

(1) For **275Mhz** CPUs select **Digital AlphaServer 2x00 - 4/xxx** <CR>, <CR> and go to step 2

(2) For **375Mhz** CPUs select **Digital AlphaServer 2x00 - 5/xxx** <CR>, <CR> and go to step 2

ETN30:

(i) From ARC Setup menu, insert Windows NT Server CD into drive.

(ii) Select "Supplementary menu…" <CR>.

(iii) Select "Install Windows NT from CD-ROM" <CR>

(iv) Press <CR> at the "**Welcome to Setup**" screen

(v) Press <CR> at the "**Specify Additional Devices**" prompt

(vi) Press <Page Down> to the bottom of the license agreement and hit <F8>.

(vii) At the "**Computer hardware and software components**" prompt select **Digital AlphaPC64** from the default list and go to step 2

AlphaServer/Station 400:

(i) From ARC Setup menu, insert Windows NT Server CD into drive.

(ii) Select "Supplementary menu…" <CR>.

(iii) Select "Install Windows NT from CD-ROM" <CR>

(iv) Press <CR> at the "**Welcome to Setup**" screen

(v) Press <CR> at the "**Specify Additional Devices**" prompt

(vi) Press <Page Down> to the bottom of the license agreement and hit <F8>.

(vii) At the "**Computer hardware and software components**" prompt select **Digital AlphaStation 200/400 Family** from the default list and go to step 2

2. Hit **<Enter>** to **Detected Network Adapters** prompt.

3. Hit **<Page Down>** all the way and hit **<F8>** to License Agreement.

4. Hit **<Enter>** to accept **The above list matches my computer** prompt.

5. Choose the disk to load NT.

   a) Select **Unpartitioned Space** of the first 2GB system disk and press **Enter** to install NT.

   b) Select **Format the partition using NTFS**. Be careful to get this right, you don't get a second chance.

c) The format will take about 25 min.

d) Hit **Enter** to accept the NT path "**\WINNT"** name given.

6. Hit **Enter** to **Do Exhaustive Tests**. It doesn't take long.
7. The machine will install some more files. Wait.
8. Select **next** to **Gathering Info** prompt for Windows NT Setup screen.
9. At the machine **Name** and **Company** prompt;

   a) Enter one of the following names;

   - **PlateMaster, CreoServer, TrendServerxxxx**

   Or

   - **Allegro xxxx** (Where xxxx is the model number)

   b) **Ignore** Organization and click **next**.

10. Enter the **CD Key** and click **next**.
11. Choose the licensing mode.

    a) Select **Per Server** and set number of connections to 10**.**

    b) Hit **Next**.

12. Set the machine name to **Pxn** where

    - x = M for PlateMaster, S for Creo Server, T for TrendServer
    - n = number of the machine shipping (e.g. PM023, PS300)

    a) Hit **Next** to accept computer name.

13. Set **Server Type** to **Stand Alone Server** and click **Next**.
14. Enter **creo** to the **Administration Password** prompt and click **Next**.
15. Select **NO emergency repair disk** and click **Next**.
16. Select **Next** to the default Install Windows Components.

3.1.2 Network Selection Setup

1. Click **Next** to **Install Windows NT Networking**.
2. Check **Wired Network** and click **Next**.
3. **Uncheck** the **Microsoft Internet Information Service** and click **Next**.
4. For each network card installed in the system;

   a) Select **Select From List** for the proper network card.

Alpha AXP 150

i) Click **Start Search** and **Novell NE3200T (detected)** adapter is displayed in the "Network Adapters:" window

DPW433A platform primary Network card *(use the default NT driver);*

ii) Click **Start Search** and **DEC PCI FastEthernet DECchip 21142 (detected)** adapter is displayed in the "Network Adapters:" window.

iii) Hit OK to the selected card.

iv) Start again for other adapters.

Alpha 5300 platform primary Network card*;*

i) Select **Have Disk** and insert the diskette (created from 19-0266A-A Doc) into the system.

i) Select the **FR-PCTBZ-AA DC21140 based 10/100 Ethernet Controller** card.

ii) Hit OK to the selected card.

ii) Start again for other adapters.

All other platforms primary Network card and All Platforms extra cards*;*

iii) Select **Have Disk** and insert the **WFS Drives Disk** into the system.

iv) Type in the appropriate **Path Specified** and select the appropriate card below for all cards.

Controller Installed	Path Specified	Card Type
• DEC DE500 Etherworks PCI	A:\DE500V29\	DEC DE500 Fast
• FDDI FDDIcontroller/PCI	A:\FDDIV29\	DEC Adapter
• DEC DE435 Etherworks Turbo PCI	A:\DE435V24\	DEC DE435

v) Hit OK to the selected card.

vi) Repeat for other adapters.

2. Select **Next**.

3. At the **Select Network Protocols** menu select the following only and click **Next**;

   - TCP/IP
   - NetBeui

4. At the **Select Services** Menu, click "**Select from list…"** and select the following services:

    - Microsoft TCP/IP Printing
    - SNMP Service
    - Simple TCP/IP Services
    - Services for Macintosh
    - Click **OK**, **Next**.

5. Click **Next** to install selected network components.

6. Select the appropriate NW connection type (typically 100 BaseT) for each card and hit **Continue**. If you are unsure choose AutoSense but ensure this is updated to the appropriate type later.

7. Click **Yes** to **DHCP** prompt *(in Production only!)*

8. Wait while files are installed

9. Click **OK** if message "**Setup could not find an NTFS …**" if it appears.

10. Click **OK** at the **Microsoft SNMP Properties** window

11. Click **OK** to the "**AppleTalk Protocol Properties**" window

12. Click **Next** to the **Bindings** prompt. Expand each service and verify TCP/IP is first in list of protocols.

13. Click **Next** to **Start The Network** if prompted.

14. Enter **PlateMaster** (or appropriate) for the **WorkGroup** name and click **Next**.

15. Select **Finish** to finish the setup.

3.1.3 Configuring NT shell

1. Wait while files are loaded.

2. Update the time;

    a) In **Time Zone** select **Pacific Time**.

    b) Select the **Date and Time** tab and update the time.

    c) Select **Close**.

3. Update Video Mode;

    Alpha Station 500 Servers

    (i) Select **Display Type / Change**.

    (ii) Hit **Have Disk**, type **A:** and hit **OK**.

(iii) Select **Digital ZLXp-E / Power Storm 3D30 / Power Storm 4D40** and hit **OK**.

(iv) Hit **Yes** / **OK** all the way out and reboot the computer.

(v) Hit **OK** to **Invalid Display Settings**.

All Severs except Alpha Station 500 Servers

(i) Hit **OK** to the detected S3 video adapter.

(ii) Set VGA mode to the highest supported by the video card. This should be:

Allegro VLF, CTP

(1)	Colors	256
(2)	Desktop Area	800x600
(3)	Font Size	Small
(4)	Refresh Frequency	75 Hertz

Allegro TS, TSVLF

(1)	Colors	256
(2)	Desktop Area	1024x768
(3)	Font Size	Small
(4)	Refresh Frequency	75 Hertz

CreoServer

(1)	Colors	256
(2)	Desktop Area	1024 * 768
(3)	Font Size	Small
(4)	Refresh Frequency	75 Hertz

(iii) Hit **Test** to see that the resolution is OK.

(iv) Follow the prompts back if everything is OK and save changes as required.

(v) Wait while files are being loaded.

(vi) Hit Restart Computer.

DEC Personal Workstation 500a

(i) If Matrox video is not detected, or if there are problems when trying to load the default Matrox graphics driver from the NT CD, do as following:

(1) Insert the "Personal Workstation a-Series System Software" CD-ROM into the CD-ROM drive. If not available use the XX0146AA.ZIP driver available on the Creo Service web page or your service CD.

(2) Start the "Display" applet by right-clicking "Desktop" and selecting "Properties". A window titled "Display Properties" will appear.

(3) Click the "Settings" tab. This lists display configurations, like "Color Palette", "Font Size", and so on.

(4) Press the "Display Type" button. A new window titled "Display Type" will appear.

(5) Press the "Change..." button in this window. A new window titled "Change Display" will appear.

(6) Press the "Have Disk..." button in this window. A window titled "Install from Disk" will appear.

(7) Specify the path (Floppy or CD-ROM) where the files are, such as **G:\Alpha\matrox\nt40** or **H:\Alpha\matrox\nt40** as appropriate and press "OK". The "Change Display" window will appear with two choices. Choose Millenium II and Press "OK".

(8) Then follow the instructions and quit the control panel applet.

(9) When asked if you want to restart the machine press "Yes". The new settings will take effect at next reboot.

2) When NT comes up, log in as **Administrator** (Note that later in the installation this is case sensitive).

3) **Close** the **Welcome to Windows** prompt.

3.1.4 Setting Standard Drive Letters

Allegro Workstations

Allegro workstations have adopted a strict drive letter convention where C: is the boot drive, E: the system drive, D: the data drive, and G: the CDROM. We will verify/convert the existing drive letters to this standard now.

1. *Systems with 2 physical disk drive configuration:*

a) Select **Start / Programs / Administrative Tools / Disk Administrator**.

b) **Right Click** C: drive (first 10MB partition of disk0) & select **Properties**.

c) Set **Label** to **OSLOADER** and hit **OK.**

d) **Right Click** the system drive E: (second partition of disk0) & select **Properties**.

e) Set **Label** to **SYSTEMDRIVE** and hit **OK.**

f) **Right Click** the D: partition and select **format…**

g) Set **File System** = **NTFS**, **Label** = **DATADRIVE** and click **OK** to start formatting D drive, Click **OK** when format is complete

h) **Right Click** the CDROM and select **Assign Drive Letter**.

i) Select **Assign Drive Letter** and choose Drive **H:** and hit **OK.**

j) Exit "**Disk Administrator**"

k) REGISTRY editing to replace CD-ROM drive letter reference from F: to H: using REGFIND.EXE (from NT 4.0 Resource KIT)

l) Select **Start /Programs/Command Prompt** to open a command window

m) Type in "MD \DRIVERS\RESKIT" <CR> to create a directory

n) Type in "CD \DRIVERS\RESKIT" <CR>

o) Insert the **Workflow Systems Drivers Disk** into drive, select the DOS window

p) Type in "COPY A:\RESKIT\REGFIND.EXE" <CR>

q) Type in "REGFIND -y F:\ -r H:\" <CR> to change CD-ROM reference from F: to H:

2. *AlphaServer 2100A/2100 with single 4GB drive configuration:*

a) Select **Start / Programs / Administrative Tools / Disk Administrator**.

b) **Right Click** C: drive (**1st** 10MB partition of disk0) & select **Properties**.

c) Set **Label** to **OSLOADER** and hit **OK.**

d) **Right Click** the system drive D: (**2nd** partition of disk0) & select **Properties**.

e) Set **Label** to **SYSTEMDRIVE** and hit **OK**

f) **Right Click** the CDROM and select **Assign Drive Letter**.

g) Select **Assign Drive Letter** and choose Drive **H:** and hit **OK**

h) **Right Click** drive D: and select **Assign Drive Letter**.

i) Select **Assign Drive Letter** and choose Drive **E:** and hit **OK**

j) Hit **OK/YES** until you're back in Disk Administrator.

k) Exit **Disk Administrator**. Disk Administrator will now inform you that you must shut the system down. Press **OK**.

l) When the system reboots log in as **Administrator**.

m) The system will give an error messages regarding the paging file. Ignore this and hit **OK**.

n) Fix the Virtual Memory.

- Select **Start / Settings / Control Panel / System / Performance / Change**.
- Select drive **E:**
- Go to the **Initial Size** box
- Enter the value that is beside **Recommended** in the lower box (e.g. for systems with 128MB of memory, this will be 139MB).
- Go to the **Maximum Size** box
- Enter a value equal to the **Initial Size** value **plus 51MB**. (e.g. if initial value is 139MB, max value will be 190MB).
- Press **Set** and hit **OK.**
- Hit **YES** to warning **Another File Exists With Filename E:\PAGEFILE.SYS ...**

o) **Right Click** the unpartitioned space of the drive and select **Partition/Create…,** hit **OK** to accept the default maximum partition size.

p) Select **Partition/Commit Changes Now…** and click **Yes, OK**

q) **Right Click** the D: partition and select **format…**

r) Set **File System** = **NTFS**, **Label** = **DATADRIVE** and click **OK** to start formatting D (**3rd** partition of disk0) drive, Click **OK** when format is complete

s) Exit "**Disk Administrator**"

t) REGISTRY editing to replace CD-ROM drive letter reference from F: to H: using REGFIND.EXE (from NT 4.0 Resource KIT)

u) Select **Start /Programs/Command Prompt** to open a command window

v) Type in "MD \DRIVERS\RESKIT" <CR> to create a directory

w) Type in "CD \DRIVERS\RESKIT" <CR>

x) Insert the **Workflow Systems Drivers Disk** into drive, select the DOS window

y) Type in "COPY A:\RESKIT\REGFIND.EXE" <CR>

z) Type in "REGFIND -y D:\ -r E:\" <CR> to change System drive reference from D: to E: and "REGFIND –y E:\ -r H:\" <CR> to change CD-ROM reference from E: to H:

3. *Alpha AXP 150 with 3 physical disk drive configuration:*

a) Select **Start / Programs / Administrative Tools / Disk Administrator**.

b) **Right Click** C: drive (**1st** 10MB partition of disk0) & select **Properties**.

c) Set **Label** to **OSLOADER** and hit **OK.**

d) **Right Click** the system drive F: (**2nd** partition of disk0) & select **Properties**.

e) Set **Label** to **SYSTEMDRIVE** and hit **OK**

f) **Right Click** the D: partition and select **format…**

g) Set **File System** = **NTFS**, **Label** = **DATADRIVE** and click **OK** to start formatting D drive (**3rd** drive), Click **OK** when format is complete

h) **Right Click** the E: partition and select **format…**

i) Set **File System** = **NTFS**, **Label** = **CREOSYSTEM** and click **OK** to start formatting E drive (**2nd** drive), Click **OK** when format is complete

Workflow Servers

All Workflow Systems have adopted a strict drive letter convention where C: is the boot drive, S: the system drive, T: the data drive, and H: the CDROM. We will convert the existing drive letters to this standard now.

1. Start Disk Administrator.
   a) Select **Start / Programs / Administrative Tools / Disk Administrator**.
   b) Make sure you put an NT signature onto any disks that are mentioned by Disk Administrator.
2. Set view to Volume mode by selecting **View \ Volumes**.
3. Change the CDROM drive letter to H:
   a) **Right Click** the CDROM and select **Assign Drive Letter**.
   b) Make a note of the original drive letter. This would normally be E:
   c) Select **Assign Drive Letter** and choose Drive **H:** and hit **OK**.

d) Hit **<Yes>** to **Make Assignment** prompt.

e) Hit **OK/YES** until you're back in Disk Administrator.

4. Change OSLoader disk to C:

   a) **Right Click** the OSLoader Disk (should be second disk, C:) and select **Properties**.

   b) Set **Label** to **OSLOADER** and hit **OK.**

5. Change the System Disk.

   a) **Right Click** the 1997MB System Disk (should be second disk, D:) and select **Properties**.

   b) Set **Label** to **SYSTEMDRIVE** and hit **OK.**

   c) **Right Click** the System Drive and select **Assign Drive Letter**.

   d) Select **Assign Drive Letter** and choose Drive **S:** and hit **OK.**. The drive letter wont change until the next time you boot the server.

   e) Hit **OK/YES** until you're back in Disk Administrator.

6. Exit **Disk Administrator**. Disk Administrator will now inform you that you must shut the system down. Press **OK**.

7. When the system reboots log in as **Administrator**.

8. The system will give an error messages regarding the paging file. Ignore this and hit **OK**.

9. Fix the Virtual Memory.

   a) Select **Start / Settings / Control Panel / System / Performance / Change**.

   b) Select drive **S:**

   c) Go to the **Initial Size** box

      i) Enter the value that is beside **Recommended** in the lower box (e.g. for systems with 128MB of memory, this will be 139MB).

   d) Go to the **Maximum Size** box

   e) Enter a value equal to the **Initial Size** value **plus 51MB**. (e.g. if initial value is 139MB, max value will be 190MB).

   f) Press **Set** and hit **OK.**

   g) Hit **YES** to warning **Another File Exists With Filename S:\PAGEFILE.SYS ...**

10. Go to the Tab **Startup/Shutdown**.

a) Check **Show List** and set this to **5** seconds.

b) Select **Close** and select **Do Not Reboot Now.**

11. Cleanup the REGEDT variables.

a) Select **Start / Run** and type **CMD**.

b) Type "**REGFIND -y x:\ -r H:**" where;

- x: is what the CDROM drive used to be. This was noted above.

You should see all the occurrences of CDROM drive letter that have not been updated now update.

c) Type "**REGFIND -y y:\ -r S:**" where;

- y: is what the SYSTEMDRIVE drive used to be. This was noted above.

You should see all the occurrences of SYSTEMDRIVE drive letter that have not been updated now update.

d) Type **EXIT** to close the command prompt.

e) Reboot.

3.1.5 Add New User Name

1. Select **Start / Programs / Administrative Tools / User Manager for Domains**.
2. Select **Guest.**
3. Uncheck **Account Disabled.**
4. Select **Close**.
5. Select **Administrator**.
6. Select **User / Copy**.
7. Enter the following:

- UserName: CreoServer, PlateMaster, or TrendServer
- Password/Confirm creo
- Uncheck User must change password at next logon.
- Select **Add**.

Or, for ***Allegro's:***

- UserName **CTPOperator**
- Password/Confirm creo

- Unchecked User must change password at next logon.
- Member of Group Power Users, Backup Operator
- Select **Add,** and close the window
- Double-click **CTPOperator** account to open its **User Properties** window.
- Checked to **Password Never Expires** checked box.
- Click on **Group** button, remove the **Administrators** item in the left side window.
- Select **Power Users** and **Backup Operators** items in the right side window and click **Add** to assign **CTPOperator** as a member of Power User and Backup Operator groups, click **OK** to exit "Group membership" window.
- Click on **Profile** button and set **Logon Script Name** = **ctpop.bat** & click **OK**, **OK** to exit "User Properties" window.

8. Enter the following:
   - UserName CreoService
   - Password/Confirm pathfinder
   - Uncheck User must change password at next logon.
   - Select **Add**.
9. Select **Close**.
10. **Close** User Manager.

3.1.6 Setup COM3 and 4 ports (non Alpha 500 only)

1. Select **Start / Settings / Control Panel / Ports**.
2. Click "Add" button to start adding COM 3 and 4's parameters as follow (select **Don't Restart Now**when prompted:

COM #:	COM3	COM4	
Base I/O Port Address:	280	288	
Interrupt Request Line (IRQ)	4	3	2100/A systems
Interrupt Request Line (IRQ)	5	7	all other Alpha systems

3. Close the **Ports** menu.
4. **Restart NT**.

3.1.7 Install/Upgrade Other NT Drivers

This section is to be done with all servers shipping with modems.

1. Install **Remote Access Service**.
   a) Start **Control Panel / Network / Services / Add**. If a complaint that the registry is locked wait a little while and try again (2 minutes).
   b) Select **Remote Access Services** and hit **OK**.
   c) Hit **Yes** to Modem Installer prompt.
   d) Select **Don't Detect Modem** and hit **Next**.
   e) Select (**US Robotics Inc)** and then **(Sportster 28800-33600 External)** and click **Next**.
   f) Select **COM4** and click **Next**.
   g) Type **604** (or appropriate area code) and click **Next** to **Location Info**.
   h) Select **Finished**.
   i) Select **OK** to **Add RAS Device**.
   j) Select **Continue** to **Remote Access Setup**.
   k) Select **Entire Network** and hit **OK**.
   l) Click **OK** to Remote Access successfully installed.
   m) Click **Close** to Network window.
   n) Click **Yes** to restart the computer.
2. Setup the Tape. **Do not use** the Tape drivers from the WFS Drivers disk.
   a) Select **Start / Settings / Control Panel / Tape Devices.**
   b) Select **OK** to the detected **DEC 4mm DAT** driver (**Not available on *Alpha AXP 150***).
   c) Add DLT drivers for Archiver **only if applicable**.
      i) Select **Drivers / Add**.
      ii) Select **Digital TZ86, TZ87 …** and hit **OK**.
      iii) Hit **Yes** to restart the computer.
3. Set the permissions. Wait about 1 minute after rebooting before you start this.
   a) Select **Start / Programs / AdministrativeTools / RemoteAccessAdmin**.
   b) Select **Users**
   c) Select **Permissions**

d) For each of the below select the User and then Check that the **Grant dialin permission to user** box is enabled.

i) Administrator

ii) CreoService

iii) PlateMaster, CreoServer, CTPOperator or TrendServer

e) Select **OK**

f) Close Remote Access Admin

4. Event Log Settings

a) Select **Start / Programs/**"**AdministrativeTools/ Event Viewer** to start up Event View

b) Select "**Log"**

c) Select "**Log Settings**..." option

d) Select "**System**", "**Security**", and "**Application** "in sequence

e) Change Settings for [ ] log", then click on "**Overwrite Events as Needed**" option in the "Event log Wrapping" group

f) Click "**OK**" when done with all three selections and exit the utility

5. Starting Schedule, Remote Access Server and UPS Services/ Setting the Startup

a) Select **Start / Control Panel / Services,** scroll down to **Schedule** service

b) Hit "**startup**"

c) Select "**Automatic"**

d) Hit "**OK", "CLOSE"**

3.1.8 Configure Performance Settings

Allegro Workstations

1. Set Maximize for Networking.

a) Select **Start / Settings / Control Panel / Network / Services / Server**.

b) Select Option: **Minimize Memory Used** and click **OK** and **Close.**

c) Hit **Don't Restart Now**, then log in as **Administrator**.

Workflow Servers

2. Set Maximize for Networking.

a) Select **Start / Settings / Control Panel / Network / Services / Server / Properties**.

b) Select Option: **Maximize throughput for network applications** and click **OK** and **Close.**

c) Hit **Don't Restart Now**.

3. Set Performance Boost for Foreground apps to 0.

a) Select **Control Panel / System / Performance**.

b) Set **Boost** to **None**.

c) Set "Show List for "5" seconds" in the "Startup/Shutdown" tap

d) Set "Wait for user selection for "5" seconds" in the "Hardware Profiles" tap

e) Select **OK**.

f) Close Control Panel.

4. Enable performance monitoring software. Note that this does not seem to impact our performance but can be used for analysis.

a) Select **Start / Run**.

b) Type "**DISKPERF -YE"** and **<CR>**.

5. Re-Order Bindings. Will will place priority on the TCP/IP protocol by raising its bindings priority.

a) Select **Start / Settings / Control Panel / Network / Bindings.**

b) In the **Show All Bindings For** select and do following for each:

- **All Services**
- **All Protocols**

c) For **each of the Services** select if available each of the below and move to the top in the following priority. Note that it will not necessarily matter which adapter is at the top as long as the are all about the same priority.

- TCP/IP Adapter. This is the highest priority.
- All other protocol Adapters.
- TCP/IP software service.
- All other software services.
- All WAN services. This is the lowest priority.
- Close Control Panel and restart the server.

3.1.9 Install UPS Software

Only to be done for platforms with UPS's.

1. Make sure the black UPS serial cable is plugged into COM port 2 on the computer
2. Put the **PowerChute Plus** disk in the drive.
   a) Select **Run** and type "**H:\US\Alpha\Setup" <CR>**.
3. Change the following in the install menu
   a) Change **Install Directory** to X**:\PWRCHUTE** (where X is the systemdrive)
   b) Change **Port Name** to **COM2**
   c) Change **Message Interval** to **60**
   d) Click **OK** to continue
   e) When install is complete, select **Start / Control Panel / Services**
   f) Double click **UPS** from services list
   g) In **Startup Type**
      i) Change Startup to **Automatic** and hit **OK**.
   h) Click **Close** to **Services** window
4. Setup the PowerChute password
   a) Select **Start / Programs / Administrative Tools** / **User Manager Domains**.
   b) Double click **PWRChute User**.
   c) Change password to "**creo"** and hit **OK**.
   d) Close User Manager.
5. Extend default shutdown delay to 180 seconds.
   a) For 2000VA UPS's, on the back of the UPS is some DIP switches. The switches are normally set to 0. Set all the DIP switches to 1.
   b) Select **Start / Programs / PowerChute / PowerChute** and choose the current server.
   c) Select **Configure/UpsShutdownParameters**.
   d) Set the **UpsTurnoffDelay** to **180** and hit **OK**.
   e) Close PowerChute.
6. Reboot the system and **wait at the ARC**.

3.1.10 Install Service Pack 3 and 4

Note that NT 4.0 SP3 has a bug in that it mistakenly replaces the valid HAL files with an older version. Follow these steps to install the service pack and save the correct HAL files.

If the system is **not** intended to be a **"**2Press" system, you will have to run NT4SP4, after installing all Creo applications (PlateMaster, CreoServer) by following the instructions included with the kit 193132AD.

If the system is a "2Press" system, please follow the steps for NT4SP3 installation.

1. Save the current valid HAL.
   a) Select **Start / Programs / Command Prompt**
   b) Type the following command **md os_saved**
   c) Type the following command **xcopy /a/e/v/f/h/k c:\os os_saved**
2. Install the Service Pack.
   a) Put in the NT Service Pack CD.
   b) Select **Start / Run** and Type "**ALPHA\NT4SP3_A<Enter>**"
   c) Reboot the server upon completion of the upgrade.
3. Restore the valid HAL.
   a) Select **Start / Programs / Command Prompt**
   b) Type the following command **attrib -r -s -h c:\os\winnt40\hal.dll**
   c) Type the following command **xcopy /a/e/v/f/h/k os_saved\winnt40\hal.dll c:\os\winnt40**

3.1.11 Creating Emergency Repair Disk

(i) 1. Label a floppy disk **Repair Disk** and put it in A:\

(ii) 2. Open a command prompt window and type in **rdisk**, then <CR>

(iii) At the dialog box choose **Create Repair Disk**; then **OK.**

(iv) 4. When done, click **OK** and then **Exit.**

1. Take out the diskette and write protect it.
2. Do not forget to write on the system serial number, date and to update it every time you change the configuration (prior to shipment). When the system is ready, ship it with the system.

3.2 Configure Alpha 5300, 4000 or 2100/A specific options

Skip this section if you are not working with the above platforms.

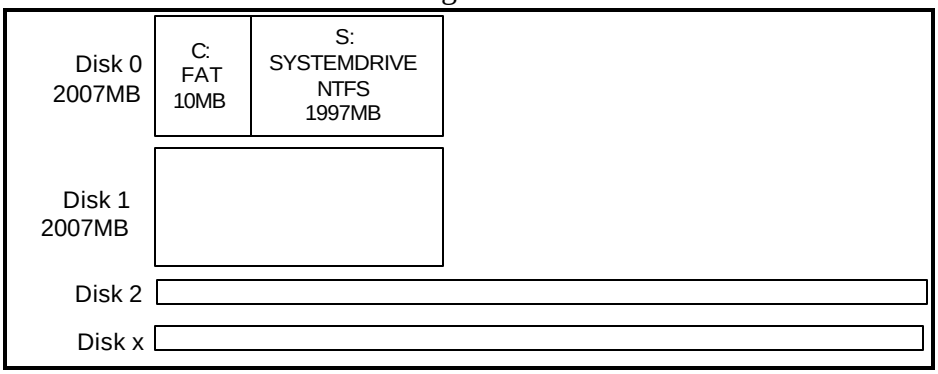
3.2.1 Creating A Mirror System Drive

1. Select **Start / Programs / Administrative Tools / Disk Administrator**. Make sure you put an NT signature onto any disks that are mentioned by Disk Administrator.

2. Select **View / Disk Configuration**.

3. There should be three available disks and should look like the following. Note that in certain cases with the Alpha 4000 platform the system disk might not appear on disk 0. If a Clariion is connected with a valid logical drive to an Alpha 4000 then the Clariion may offset the system disk making the Clariion disk 0. The example listed below is for an Alpha 2100A where the Clariion is NOT offsetting the system disk. The disk numbers below reflect this.

Disk Administrator
Pre Mirror Drive Setup
Figure 4



   a) Disk 0 is where the System and Boot is located.

      i) Partition 1 is the 10MB ARC Boot partition

      ii) Partition 2 is the NT Operating System partition

   b) Disk 1 will become the mirror to Disk 0.

   c) Disk 2 will become the data drive T:.

4. If there are any partitions on disk 1 or the Clariion disks (2 and above) **Delete** it now and select **Partition / Commit Changes**.

5. To establish a mirror,

   a) Select Partition 1 of Disk 0

   b) Hold the <CTRL> key select Disk 1. Both disks should now be highlighted.

   c) Select **Fault Tolerant**

d) Select **EstablishMirror**

e) Partition 1 of both disks 0 and 1 should now be called disk C and change color to purple.

6. Do the same for Partition 2 for Disk 0 and 1.

a) Select Partition 2 of Disk 0

b) Hold the <CTRL> key select **Unpartitioned Space** of Disk 1. Both disk partitions should now be highlighted.

c) Select **Fault Tolerant**

d) Select **EstablishMirror**

e) Hit **OK** at the **System Boot Partition** warning.

f) Partition 2 of both disks 0 and 1 should now be called disk **S:** and change color to purple.

7. Commit the changes you have made,

a) Select **Partition**

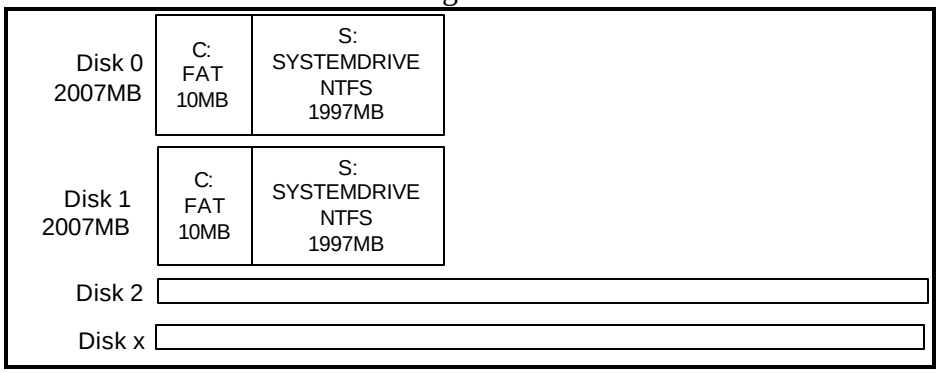
b) Select **Commit Changes Now**

c) Select **Yes/OK** all the way back until NT restarts the system

8. Go back into DiskAdmin. The two mirror system drives C should be in red text. They will remain red until the system rebuilds itself onto the mirror drive in the background.

9. At this point the drives should like this.

Disk Administrator
Post Mirror Drive Setup
Figure 5



10. Exit **Disk Administrator**.

11. Login into NT and monitor event log. Wait until the mirror building is complete. This should take about 15 minutes.

a) Select **Start / Programs / Administrative Tools / EventViewer**.

b) Select **Log/System**.

c) Wait for source **FTDISK** to appear. Occasionally hit <F5> to update the log.

d) Double click the FTDISK item. If the message "**Mirror initialization or synchronization is complete.**" continue on.

3.2.2 Create An Alternate Boot Menu

1. At this point you will need to manually create an alternate boot partition for the NT mirror drive. This alternate boot is what will be used if the Master system disk dies. There are two ways to do this based on if you are using an Alpha with Alpha BIOS (Alpha 4000 machines only) or the ARC console (all other Alphas).

2. Creating Mirror Boot Menu using the ARC console (non Alpha 4000 machines)

   a) Boot to the ARC console.

      i) Select **Supplementary Menu**

      ii) Select **Set Up the System**

      iii) Select **Manage Boot Selection Menu**

      iv) Select **Add a Boot Selection**

      v) Select **New System Partition**

   b) To Create the new boot partition
   Select **SCSI Hard Disk**.

SCSI Bus number:	0
SCSI ID:	2
Partition (FAT or NTFS):	1
OSLOADER directory and name:	\OS\WINNT40\OSLOADER.EXE
Is the operating system on the same partition as the OSLOAD:	NO
Location of OS partition:	SCSI Hard Disk
SCSI bus number:	0
SCSI ID:	2
Partition:	2
OS Root directory:	\WINNT
Name for boot section:	Windows NT Mirror
Debugger enabled at this time:	NO

   c) At the Boot Selection menu

      i) Select **Rearrange Boot Selections**

      ii) Select **Windows NT Server Version 4.0**

      iii) Select **ESC** to go back to Boot Menu.

   d) At this point verify the boot selection you created is functional.

i) Select **Verify Boot Selection**

ii) If there are any problems recheck the boot selection above.

iii) If there is still a problem after that consult an expert.

e) Save changes and go back to the boot window.

i) Select **Setup Menu**

ii) Select **Supplementary Menu and Save Changes**

iii) Select **Boot Menu**.

iv) Select **Boot Windows NT**

3. Creating Mirror Boot Menu using Alpha BIOS (Alpha 4000 machines only)

a) While booting the Server hit <F2> during the SCSI disk tests to enter setup mode.

b) Select **Hard Disk Setup**. There should be 2 disks with 1*10MB FAT and 1*2GB NTFS partitions on them. Note the disk number of the 2nd of these. This disk number will be '**X**' used later. Hit **<ESC>** to exit this menu.

c) Select **Utilities / OS Selection Setup** and hit the **<Insert**> key. You must use the <**TAB**> key to move around. Do **not** hit <**CR**>.

- Select **Boot Name** and enter "**Windows NT 40 Mirror**".
- Select **Boot File** and with the <up>/<down> arrow keys select **"Disk X Partition 1**" where X was determined above. For the name hit <TAB> and enter **"\OS\WINNT40\OSLOADER.EXE**"
- Select **OS Path** and with the arrow keys select "**Disk X Partition 2**". For the name hit <TAB> and type "**\WINNT**" <CR>.

d) Hit <F9> to validate.

e) If everything is OK hit <F10> and <CR> to save changes.

f) Hit <ESC> to go back to the main menu. Your should see the mirror boot option as one of your available selections.

4. DATA DISK CONFIGURATION

This section describes how to configure the disks sitting in a Clariiion Raid, StorageWorks shelf, or StandAlone disks into a logic data drive. This is done differently depending on the type of Raid or Diskset being configured so only refer to the section that applies to your system.

4.1 Disk Base Configuration Backup

Stripes and mirror sets are complex disk configurations. Two backups, **Disk Base Cfg** and **Disk Final Cfg** floppies are created incase there are problems with the disk sets. It is very important to never low level format or remove the stripe and mirror sets from a machine or NT will get confused. In case this happens these disks can be used to help clear up the problem. We will first creat the **Disk Base Cfg** floppy and the **Disk Final Cfg** floppy after configuring the Disk sets.

a) Start Select **Start / Programs / Administrative Tools / Disk Administrator**

2. Put the **Disk Base Cfg** floppy in.

3. Select **Partition / Configuration / Save**.

4. Hit **OK** to the prompt.

5. Close Disk Administrator.

6. Mark the date and Machine Serial Number on the floppy.

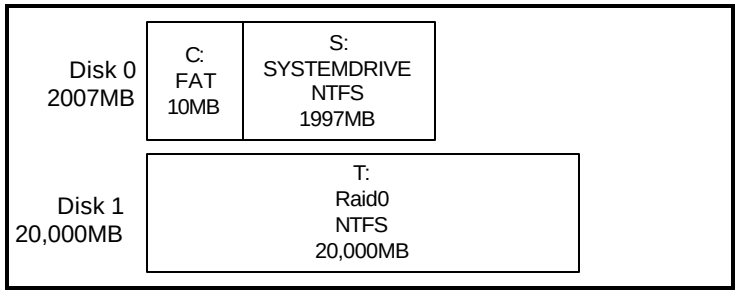
4.2 Creating a logical NT drive

1. Boot the Alpha into **Administrator**.

2. Start Disk Administrator.

   a) Select **Start / Programs / Administrative Tools / Disk Administrator**

   b) Make sure you put an NT signature onto any disks that are mentioned by Disk Administrator. You don't get a second chance! A ***WFS Server*** configuration should look like this.



3. Create a Logical Drive

   a) Select Disk1.

   b) Select **Partition/CreatePartition**.

   c) Select **Partition/CommitChangesNow**.

4. Format **Disk 1** to NTFS and name the volume **DATADRIVE**.

   a) Click on **Disk 1** box

b) Select **Tools**

c) Select **Format**

d) Select **Quick Format** box.

e) Select **NTSF** and label **DATADRIVE**

f) Hit **OK**

5. Change the other Drive letters.

a) Click in the block of **disk 1**.

b) Select **Tools**

c) Select **Drive Letter**

d) Choose **Drive T:** (or appropriate)

e) Press **OK**

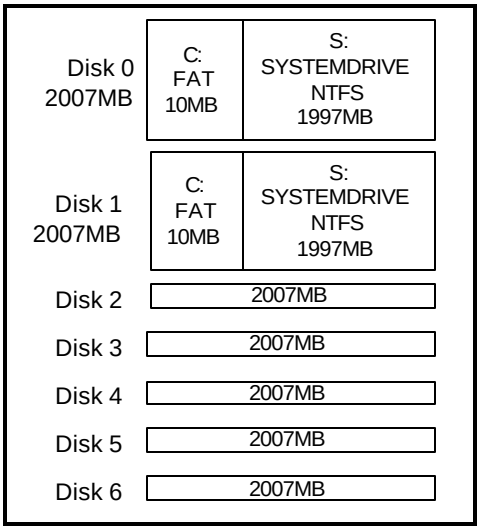
6. Exit Disk Administrator.

4.3 Creating a Stripe Set logical NT drive

1. Start Disk Administrator.

a) Select **Start / Programs / Administrative Tools / Disk Administrator**

b) Make sure you put an NT signature onto any disks that are mentioned by Disk Administrator. You don't get a second chance! A ***WFS Server*** configuration should look like this.



2. Create a Logical Stripe Set

a) Select Disk2 and while holding the <CTRL> key select all the other disks.

b) Select **Partition/CreateStripeSet**.

c) Select **Partition/CommitChangesNow**.

d) The system will prompt you to reboot the system. Do this now.

e) Go back into Disk Administrator.

3. Create a partition on Disk 2

a) Click on **Disk 2** box

b) Select **Partition**

c) Select **Create**

d) Specify the Maximum size allowed

e) Hit **OK**

f) Select **Partition**

g) Select **Commit Changes Now**

4. Format **Disk 2** to NTFS and name the volume **DATADRIVE**.

a) Click on **Disk 2** box

b) Select **Tools**

c) Select **Format**

d) Select **Quick Format** box.

e) Select **NTSF** and label **DATADRIVE**

f) Hit **OK**

5. Change the other Drive letters.

a) Click in the block of **disk 2**.

b) Select **Tools**

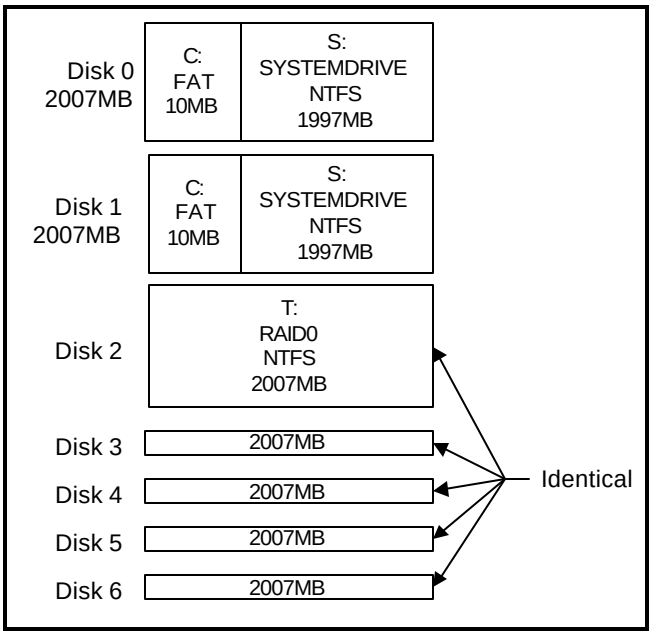
c) Select **Drive Letter**

d) Choose **Drive T:** (or appropriate)

e) Press **OK**

6. Your drive map should now look like this.

Disk Administrator



7. Exit Disk Administrator.

4.4 Disk Final Configuration Backup

1. Start **Disk Administrator**.
2. Put the **Disk Final Cfg** floppy in.
3. Select **Partition / Configuration / Save**.
4. Hit **OK** to the prompt.
5. Close Disk Administrator.
6. Mark the date and Machine Serial Number on the floppy.

Allegro Workstation

5. SYSTEM ENVIRONMENT

5.1 Minimum Space Requirements

Refer to Document R-1 for the space requirements of the Platesetter 3244. The positioning of the computer workstation and peripherals restricted by the 25-feet (8.5 meters) length of the interface cable connecting the workstation to the plate recorder.

5.2 Temperature and Humidity

Refer to the following documents for the temperature and humidity requirements of the system components:

Platesetter 3244	Document R-1
Computer	Document R-4
Monitor	Document R-6

5.3 Cleanliness Standard

There are no special requirements for the workstation and its peripherals. However, smoking should be discouraged in the room in which these machines are installed.

5.4 Electrical Requirements

The workstation and its peripherals require 115 or 230 VAC. The Platesetter 3244 and Allegro Workstation must be connected through the same system ground. There must be < 1 volt potential difference between Allegro Workstation and recorder safety grounds for correct operation.

5.5 Operating Environment

The Allegro Workstation requires no darkroom or special lighting.

6. APC'S MEASURE-UPS TEMPERATURE MONITOR FIELD INSTALLATION GUIDE

This document describes procedures for installing an APC's Measure-UPS in an Allegro Workstation in a non air-conditioned press room cabinet to prevent the temperature inside the cabinet rise above temperature threshold set by the operator.

Before you begin, You MUST prepare the following according to the intended Allegro Workstation model:

Allegro 1000:

1. PowerChute Plus UPS software Version 4.24 or above
2. APC's Measure-UPS unit (P/N 15-3149)
3. This Installation Guide

Allegro 1100/2000/4000/5000, 2/300a, 2/400a and 1/433a:

4. APC's Measure-UPS unit (P/N 15-3149)
5. This Installation Guide

6.1 Hardware Installation

1. Remove the UPS's 9-pin connector from the workstation, plug the Measure-UPS's feed through connector onto the UPS, then plug the connector from the workstation back onto feed through connector. **Replace the gray cable with the black one supplied in the PowerChute Plus software package for Allegro 1000's.**
2. Place or mount the Measure-UPS unit at the location where there's good consistent air flow.

6.2 Software Installation

Allegro 1000:

1. Restart the system and Log on to "Administrator" account, start up "Control Panel", then "Services" applet:
   - Scroll down the list and high light the UPS service and click "Stop" to stop the service.
   - Close and Exit "Control Panel".
2. Insert **PowerChute Plus Version 4.2.4 For Windows NT** CD into drive, open a "Command Prompt" window, type in "G:" <CR> to log to G: drive.
3. Type in "CD \US\Alpha" <CR> to change current directory to the appropriate platform software, then type in "SETUP" <CR> to start the software setup process.
4. Select **"E:\PWRCHUTE**" directory, Interface to **COM2**, Message broadcast **interval = 60** and leave **all other default options unchanged**. A PowerChute Plus Software group should be created under Program Manager.
5. Start-up "Control Panel", Double-click on "Services" applet, move the cursor down to "UPS", then click "Startup..." and change "Startup type" to "Automatic" and click "OK". Reboot the system and stay in "Administrator" account.
6. Double-click the "PowerChute Plus" icon from the group to start the UPS software, Select the correct server name if more than one displayed in the "Monitor Server" dialogue box.
7. Select "Configuration" menu, then "Measure-UPS Parameters..." option.
8. In the "Measure-UPS Parameters" window, under "Threshold" group, Check and enter values as follow:

- "Low Temperature" = 10

- "High Temperature" = 35

- "Low Humidity" = 20

- "High Humidity" = 80

9. Leave the "Contacts" group untouched and click "OK".

10. Select “Configuration” menu, “Event Actions...” option. Scroll down the “Events” list and select “Ambient Temp Out Of Range” item, in the “Actions for Selected Events” group, Check and enter text or number in the following check boxes:

- “Notify Users” check box, click on “Options...” button, and type in

“Cabinet Temperature above 35 Celsius, Please clean fan filter or “ in the

“Notification Message” field.

“Wait” “5” Seconds Before Notification &

“Notify Every” “60” Seconds and click “OK”.

- “Shut Down Server” check box, click on “Options...” button, and enter “600”

seconds in the “Begin Shutdown Sequence” field and click “OK”.

11. Select “Humidity Out Of Range” item, check the “Notify Users” check box, click on “Options...” button, and type in:

“Cabinet Humidity Out of Range (20 -80), Call Creo Service for advises!!!” in the “Notification Message” field.

“Wait” “5” Seconds Before Notification &

“Notify Every” “120” Seconds and click “OK”.

12. Click “OK” to complete “Event Actions...” configuration.

13. At this point, you can either minimize the PowerChute UPS software or Exit the software (recommended) to free up memory. Log off and on to “CTPOperator” account to begin normal system operation.

Allegro 1100/2000/4000/5000, 2/300a, 2/400a, 1/433a and 1/500a:

PowerChute Plus software should already been installed in the system:

1. Restart the system and Log on to “Administrator” account.

2. Double-click the “PowerChute Plus” icon from the group to start the UPS software, Select the correct server name if more than one displayed in the “Monitor Server” dialogue box.

3. Select “Configuration” menu, then “Measure-UPS Parameters...” option.

4. In the “Measure-UPS Parameters” window, under “Threshold” group, Check and enter values as follow:

- “Low Temperature” = 10

- “High Temperature” = 35

- “Low Humidity” = 20

- “High Humidity” = 80

5. Leave the “Contacts” group untouched and click “OK”.

6. Select “Configuration” menu, “Event Actions...” option. Scroll down the “Events” list and select “Ambient Temp Out Of Range” item, in the “Actions for Selected Events” group, Check and enter text or number in the following check boxes:

- “Notify Users” check box, click on “Options...” button, and type in

“Cabinet Temperature above 35 Celsius, Please clean fan filter or “ in the

“Notification Message” field.

“Wait” “5” Seconds Before Notification &

“Notify Every” “60” Seconds and click “OK”.

- “Shut Down Server” check box, click on “Options...” button, and enter “600”

seconds in the “Begin Shutdown Sequence” field and click “OK”.

7. Select “Humidity Out Of Range” item, check the “Notify Users” check box, click on “Options...” button, and type in:

“Cabinet Humidity Out of Range (20 -80), Call Creo Service for advises!!!” in the “Notification Message” field.

“Wait” “5” Seconds Before Notification &

“Notify Every” “60” Seconds and click “OK”.

8. Click “OK” to complete “Event Actions...” configuration.

9. At this point, you can either minimize the PowerChute UPS software or Exit the software (recommended) to free up memory. Log off and on to “CTPOperator” account to begin normal system operation.

6.3 Allegro Workstation NT Configuration Check List

UNIT NAME :
CUSTOMER :
DATE :

Item	Reqd	Present	Model	Serial Number	FCC ID Number	Made In
Hardware						
Computer						
Monitor						
Memory Size						
Network Adapter						
Differential SCSI Adapter						
DUOCOM 3088 serial adapter						
Software		**Net Type**			**Driver File Name**	**File Date**

Windows NT						
UPS Software						
Network Adapter Driver Version						
SCSI Adapter Driver Version						
Other						
WFS Drivers Disk Rev. J						

ITP	Configuration Info	Settings	Checked By:
14.2.1	Computer Name		
14.2.2	IP Address		
14.2.3	Domain/ WorkGroup		
14.2.4/5	Memory Size/PageFile Size (MB/MB)		
14.2.6	System's Tasking Setting:	"Performance Boost for Foreground apps to 0"	
14.2.7	NetWork's Server Setting:	"Minimize Memory Used"	
14.2.8	LargeSystemCache Registry setting:	HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\ Session Manager\Memory Management\ LargeSystemCache: 0	
14.2.9	NT SHARED RESOURCES SETTINGS	E: = EDrive, D: = DDrive, CD-ROM = GDrive F: = FDrive (Alpha AXP 150)	

6.4 Allegro Workstation NT Configuration Checks

6.4.1 Recording Allegro Workstation name

- Use a ball point pen to fill in the name of the workstation, "CWxxx", in the SETTINGS column.

6.4.2 Recording Allegro Workstation IP address

- Fill in a test IP address (obtained from Computing Services) used during factory test in the SETTINGS column.

6.4.3 Recording Allegro Workstation Workgroup name

- Fill in WorkGroup name that the workstation is a member of, "PLATEMASTER", in the SETTINGS column.

6.4.4 Recording Allegro Workstation Virtual Memory setting

- Fill in the number in MegaBytes of physical memory installed/ PageFile size setting (this is the paging file that Windows NT used to page its data temporary when it runs out of physical memory). Make sure the Memory Size/PageFile values are set according the table in ITP 5 below.

6.4.5 Verifying System's Paging File size

- Select **Start / Settings / Control Panel / System / Performance / Change**.
- Verify the page file size on E: drive (F: for ***Alpha AXP 150***) according to table below:

System Memory (MB)	Initial Size (MB)	Maximum Size (MB)
128	139	190
256	267	318
384	395	446
512	523	574
1024	1035	1086
2048	2059	2110

- Close the applet when done
- Check this item on the Check List on page 40.

6.4.6 Setting Performance Boost for Foreground apps to 0

- Select **Start / Settings / Control Panel / System / Performance**.
- Set **Boost** to **None**.
- Check this item on the Check List on page 40.

6.4.7 Setting NT Network Server setting

- Select **Start / Settings / Control Panel / Network / Services / Server**.
- Select Option: **Minimize Memory Used** and click **OK** and **Close.**
- Select "Restart Now" if prompted
- Check this item on the Check List on page 40.

6.4.8 Setting NT's LargeSystemCache Registry setting

- Start up a Command_Prompt window
- Type in "REGEDT32" <CR>

- Click “HKEY_LOCAL_MACHINE on Local Machine” window to bring it to foreground
- Double-click “SYSTEM”, “CurrentControlSet”, “Control”, “Session Manager” then “Memory Management”
- Select “LargeSystemCache” by double-click on this key, verify its value = 0, change it to 0 if it displays otherwise
- Press ALT-F4 to close the Registry Editor window
- Check this item on the Check List on page 40.

6.4.9 Verifying NT shared resources

- Select **Start / Run**, and type in “WINFILE” <CR> to startup File Manager
- Connect to shared drive(s) on the network from other server(s)/workstation(s), verify that file(s) can copied to/from Allegro workstation to networked server(s)/workstation(s).

7. END.