

Workflow Systems

Aviion Intel NT 4.0 Installation Procedure

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Aviion Intel NT 4.0 Installation Procedure

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1 SCOPE

This procedure will help the user set up Windows NT onto any Intel Creo Workflow System. This will include the Data General Aviion AV2150, AV2600, AV2200, AV2300, AV2700 and AV3700. All platforms will be configured to a common level. ***For any other software or hardware configuration, please consult the related installation document.***

If the system is already configured by Data General, you will have to follow this document for verifying the way the system was setup, and/or to continue with the NT configuration.

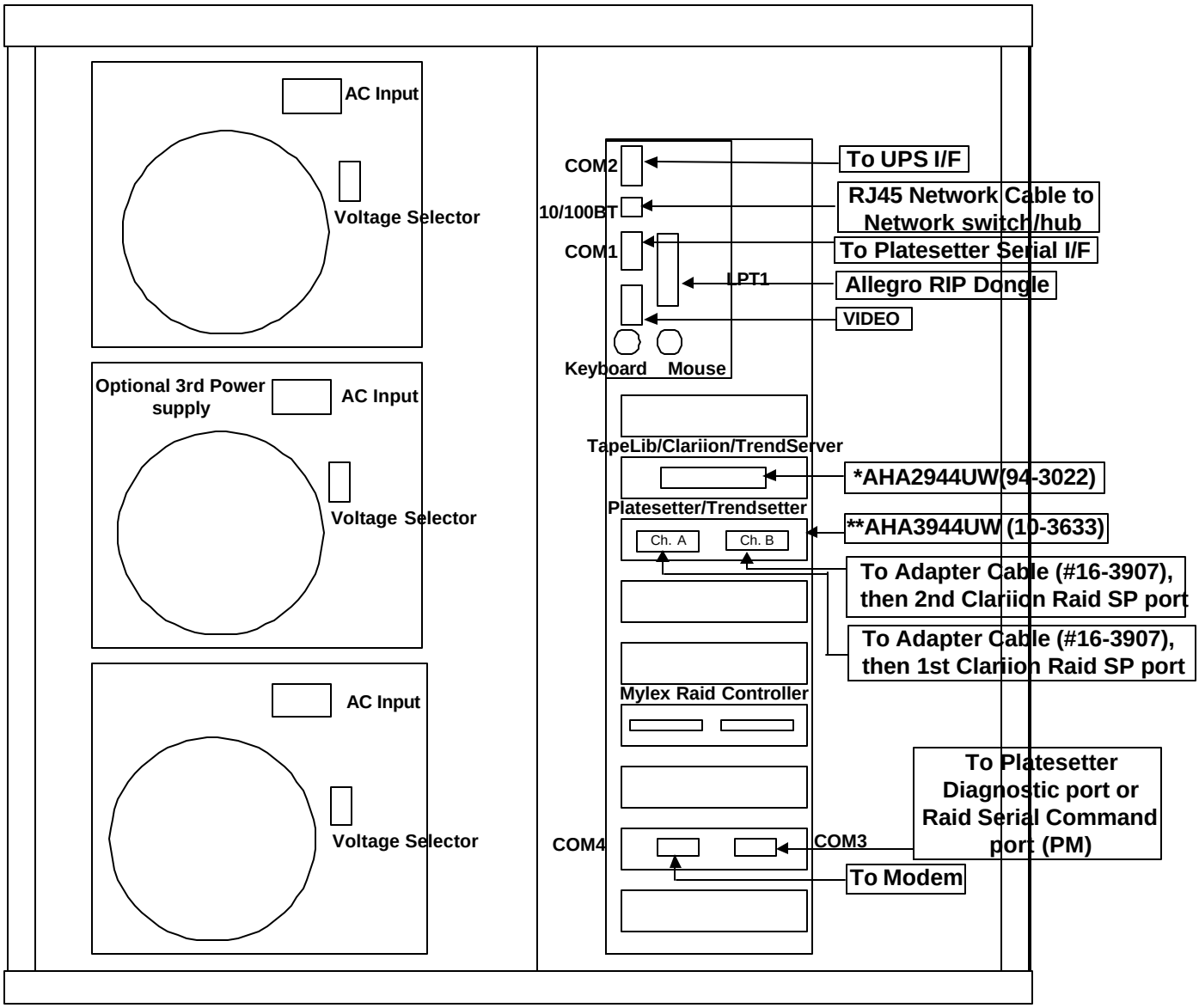
1.1 Revisions

Date	Modification
970626	- First Draft
970728	- Add section to setup system pre-configured by DG.
980626	- Updated section to setup system pre-configured by DG.
980709	- B version ready – including latest diagrams and installation instructions
981005	- AV2700 setup and installation notes added
981130	- C version ready – including latest diagrams and installation instructions
990331	- AV2200 setup and installation notes added
990415	- AV3700 setup and installation notes added
990511	- D version ready – including latest diagrams, installation instructions and reference to NT4SP4
990811	- E version ready - AV2300 setup and installation notes added

1.2 Hardware Breakdown

The following pages will list the hardware installed and a diagram of the back of the unit for the various Server platforms.

Data General Model - Aviion AV2600
Creo Model - AWS, C2P, CS, PM, TS 2/200i



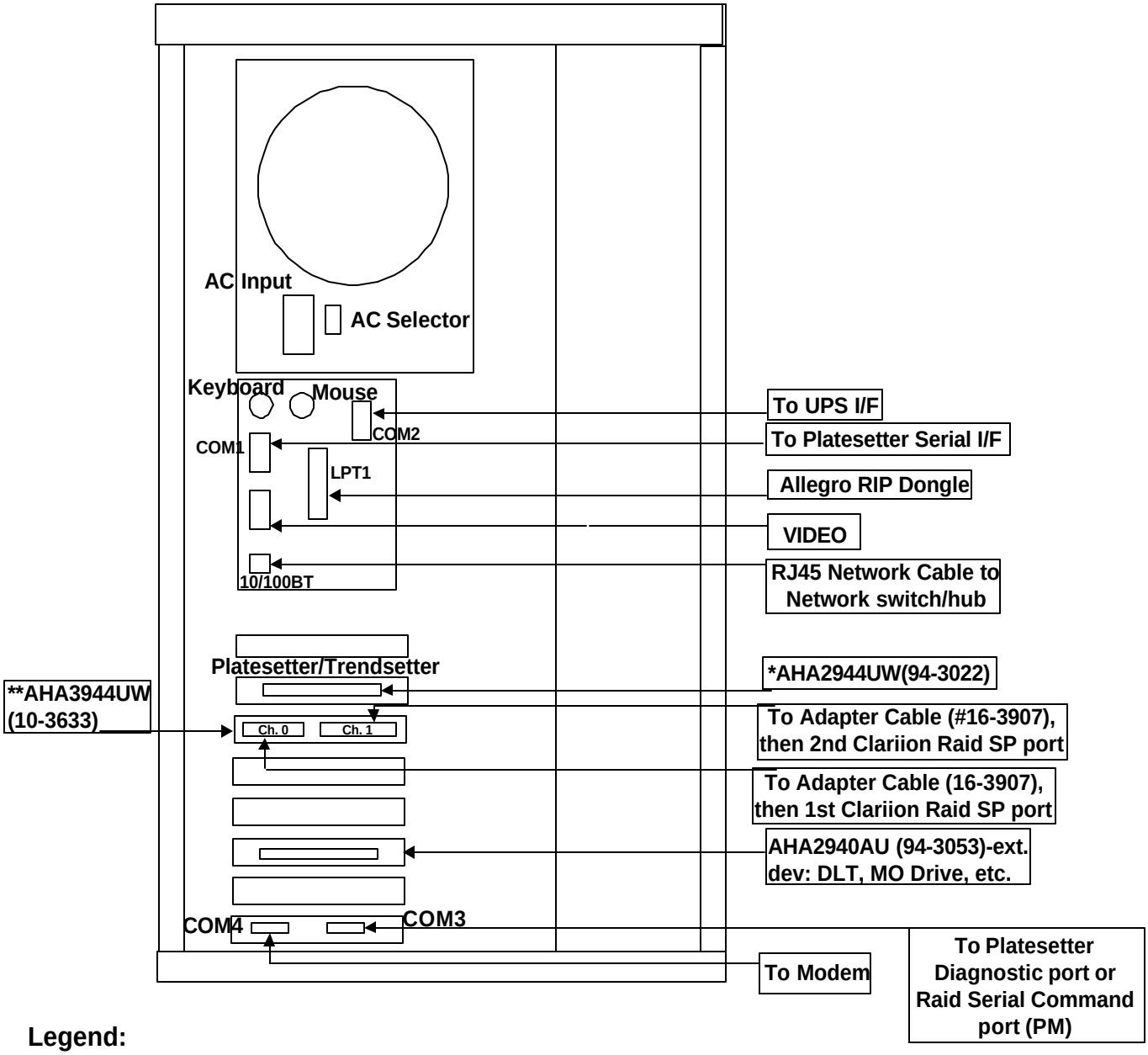
Legend:

*** This AHA2944UW Diff. SCSI adapter should be replaced with an AHA3944UW if either single SP Clariion Raid or Tape Library jukebox is attached.**

**** This AHA3944UW will be added when more than 2 SCSI ports required : Dual SP Clariion Raid unit.**

 # 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.

Data General Model - Aviion AV2150
Creo Model - AWS, C2P, CS 2/300i



Legend:

*** This AHA2944UW Diff. SCSI adapter should be replaced with an AHA3944UW if either single SP Clariion Raid or Tape Library jukebox is attached.**

**** This AHA3944UW will be added when more than 2 SCSI ports required : Dual SP Clariion Raid unit.**

 # 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.

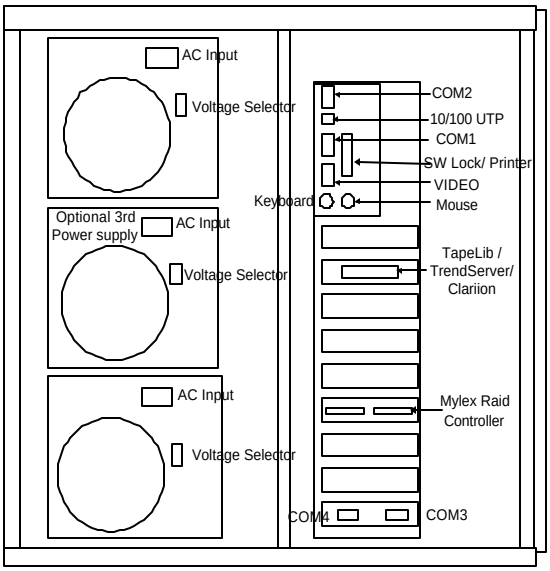
PlateMaster 2/200i, CreoServer 2/200i,

TrendServer 2/200I

Data General Aviion AV2600

Creo Designation	2/200I
Data General	AV2600
Creo #	
DG #	
Disk cabinet	2 * DG 7631 (Intel)
Internal System Disks	2*2GB
Internal Data Disks	8*4GB
SCSI ctrl (Integrated)	AIC7880
SCSI ctrl 2	
SCSI ctrl 3	
SCSI ctrl 4	
CPUs installed	2* 200Mhz
Max# CPUs	2
Memory type/banks/#slots	ECC DIMM/8/8
Memory typical installed	256MB
Maximum upgrade	1GB
Video (integrated)	Cirrus
Network (Integrated)	10/100BT
Network added	0
CDROM	1
DAT	0
Floppy	1
Monitor	17"
Second Serial	Duocom
UPS	1400VA

Figure 1

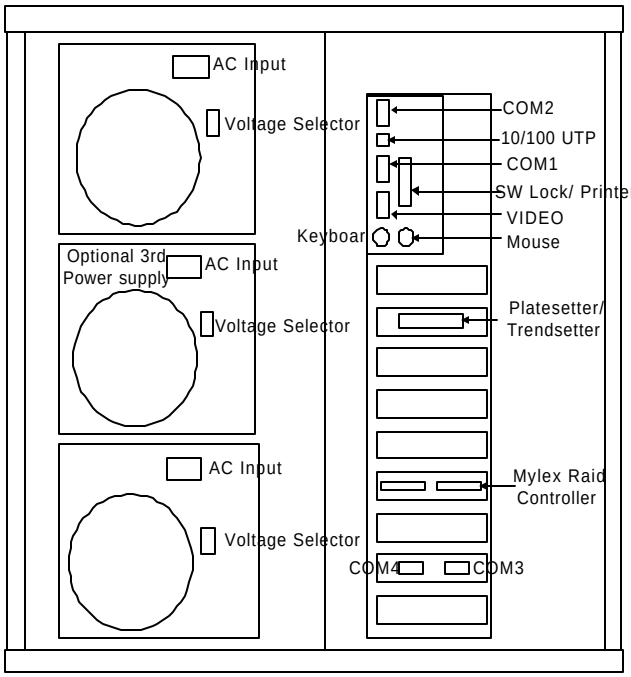


Allegro 2/200I

Data General Aviion AV2600

Creo Designation	2/200I
Data General	AV2600
Creo #	
DG #	
Disk cabinet	2 * DG 7631 (Intel)
Internal System Disks	1*2GB
Internal Data Disks	1*4GB
SCSI ctrl (Integrated)	AIC7800
SCSI ctrl 2	
SCSI ctrl 3	
CPUs installed	1 * 200Mhz
Max# CPUs	2
Memory type/banks/#slots	ECC DIMM/8/8
Memory typical installed	128MB
Maximum upgrade	1GB
Video (integrated)	Cirrus
Network (Integrated)	10/100BT
Network added	0
CDROM	1
DAT	0
Floppy	1
Monitor	15"
Second Serial	Duocom
UPS	1400VA

Figure 3

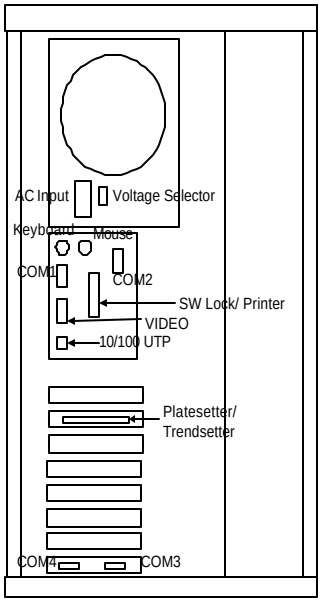


CreoServer 2/300I or CRI Workstation 2/300I

Data General Aviion AV2150

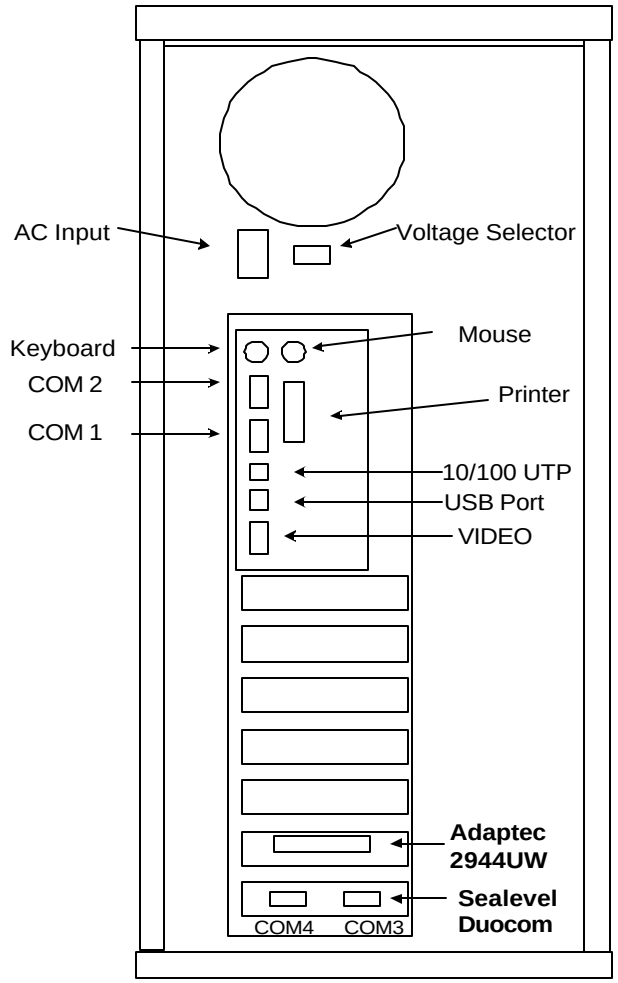
Creo Designation	2/300I
Data General	AV2150
Creo #	
DG #	
Disk cabinet	None
Internal System Disks	1 * 4GB
Internal Data Disks	Optional
SCSI ctrl (Integrated)	AIC7800
SCSI ctrl 2 (optional)	2940UW/ 2944UW
SCSI ctrl 3 (optional)	2940UW/ 2944UW
CPUs installed	1 * 200Mhz
Max# CPUs	1
Memory type/banks/#slots	ECC DIMM/4/4
Memory typical installed	64MB
Maximum upgrade	512MB
Video (integrated)	Cirrus
Network (Integrated)	10/100BT
Network added	0
CDROM	1
DAT	0
Floppy	1
Monitor	15"
Second Serial (Optional)	Duocom
UPS (Optional)	1400VA

Figure 4



*** PLEASE READ THIS DIAGRAM CAREFULLY BEFORE CONNECTING ANY EXTERNAL DEVICES TO THE SYSTEM!!!

Data General Model - Aviion AV2300
Creo Model - AWS, C2P, CS, PM 2/500i

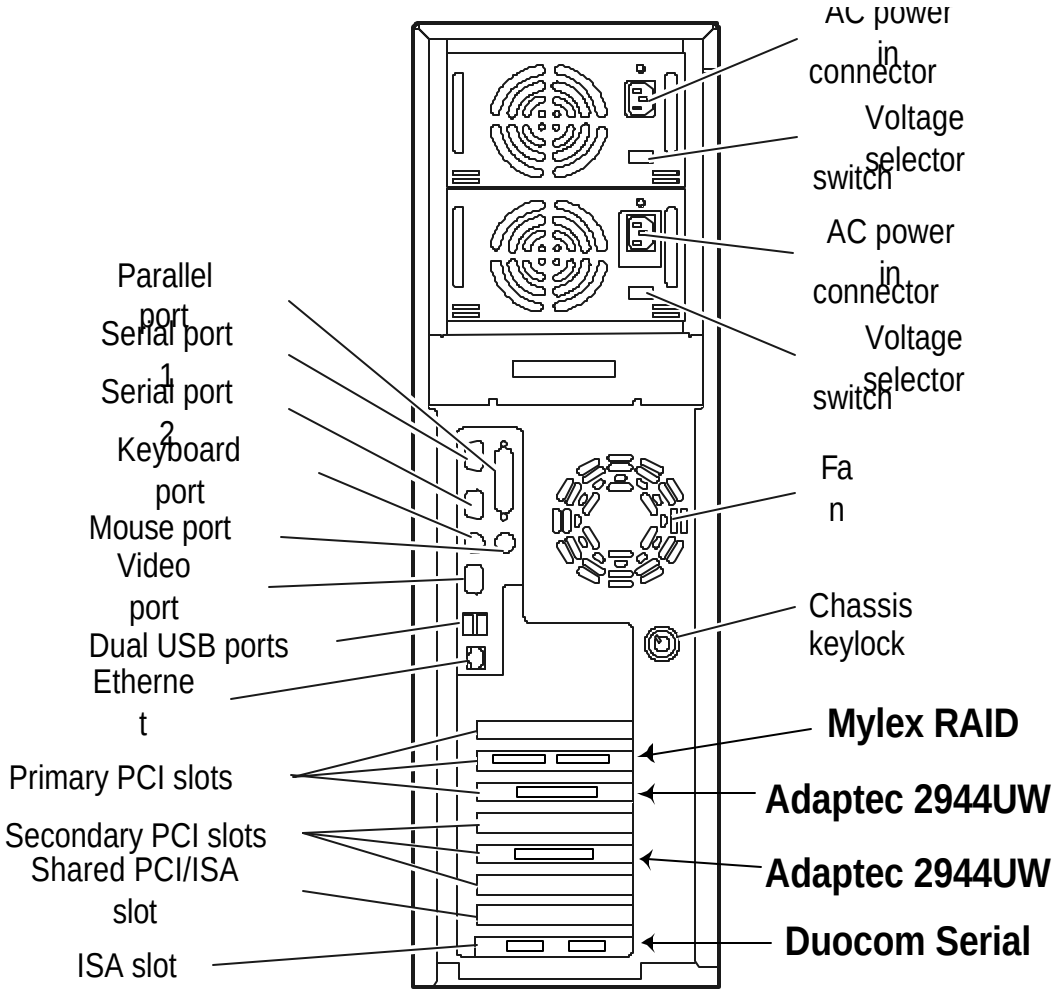


Card Position when installed:

Sealevel Duocom 3088	**ISA Slot 1**
Adaptec 2944UW (7462)	**PCI-1 Slot 1**

*** PLEASE READ THIS DIAGRAM CAREFULLY BEFORE CONNECTING ANY EXTERNAL DEVICES TO THE SYSTEM!!!

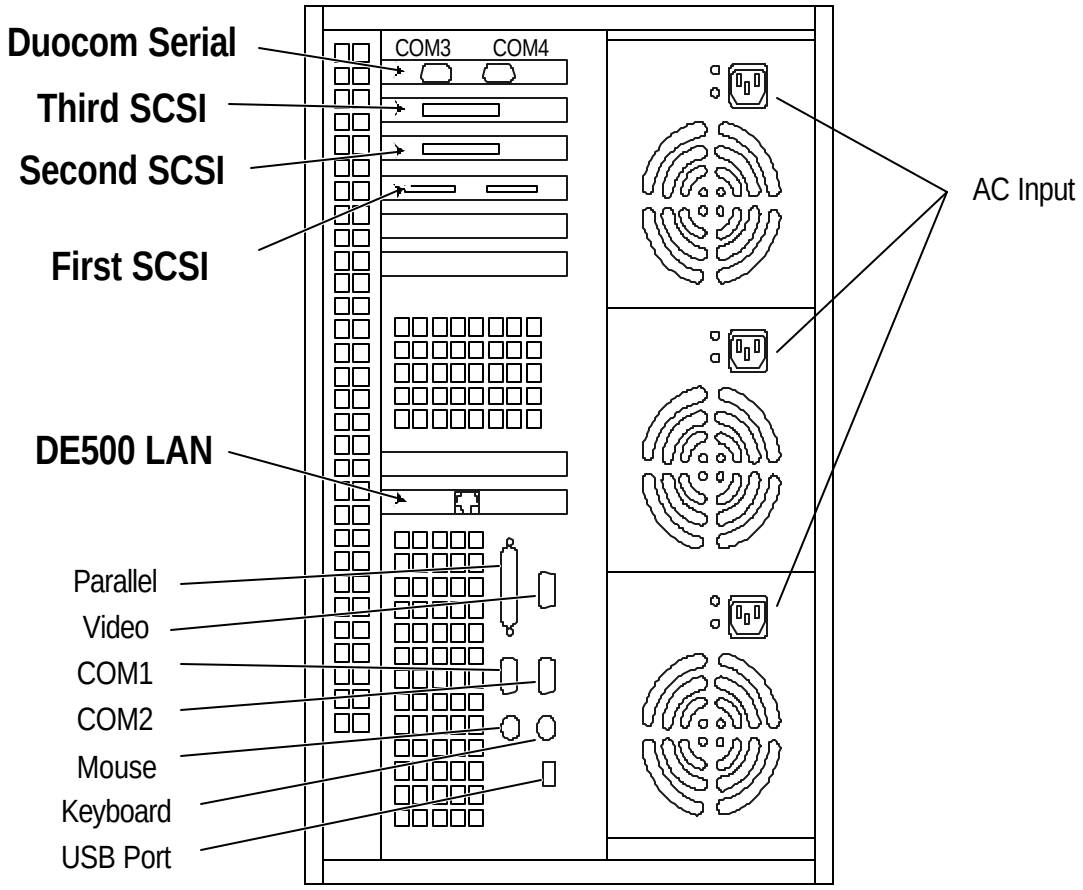
Data General Model - Aviion AV2700
Creo Model - AWS, C2P, CS, PM 2/400i



Mylex RAID (used only for internal RAID)	**PCI-0 Slot 2**
First Adaptec AHA2944UW (94-3022)	**PCI-0 Slot 3**
Second Adaptec AHA2944UW (94-3022)	**PCI-1 Slot 2**
Sealevel Duocom 3088	**ISA Slot 2**

*** PLEASE READ THIS DIAGRAM CAREFULLY BEFORE CONNECTING ANY EXTERNAL DEVICES TO THE SYSTEM!!!

Data General Model - Aviion AV3700
Creo Model - AWS, C2P, CS, PM 2/450i or 4/450i



First LAN Controller	**PCI-A1**
First SCSI Controller	**PCI-B1**
Additional SCSI Controller	**PCI-B2**
Additional SCSI Controller	**PCI-B3**
Sealevel Duocom 3088	**ISA Slot 1**

1.3 UPS requirements

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

UPS Type	Plug Type			
	North American	Europe	Asia	Australia
1400 Desk Side	125V 15A nema 5-15	230V 10A iec320 c14	100V nema 5-15p	240V 10A iec320 c14
2200 Desk Side	125V 20A nema 5-20	230V 16A iec320 c20	100V 20A nema 5-20p	240V 10A iec320 c20
3000 Desk Side	125V 30A nema 5-30	230V 16A iec320 c30	100V nema 5-30p	240V 10A iec320 c30

1.4 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.

Table 1a: ***CreoServer***

Drive	Type	Information
C:	FAT	DOS, SCU, Utilities etc.
J:	Subst	Substitute to T: PMaster 1.2 jobs directory. (PlateMaster only)
H:	N/A	CDROM
S:	NTFS	NT Operating system. Creo executables. Third party executables.
T:	NTFS	Databases (for PlateMaster). Jobs.

Table 1b: ***Allegro***

Drive	Type	Information
C:	FAT	DOS, SCU, Utilities etc.
H:	N/A	CDROM
E:	NTFS	NT Operating system. Creo executables. Third party executables.
D:	NTFS	Data files + Job spooling folders

1.5 You Will Need

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

Table 2

Disk	Type	Ver	Comments	Systems
Windows NT	CD	4.0	Operating system	All
Workflow Systems	Flpy, CD	3.51	SCU System Configuration Utility	All
Workflow Systems Drivers Disk	Flpy	0.01	Drivers for DE500, FDDI, Mylex, etc.	All
Workflow Systems Emergency Repair Disk	Flpy	N/A	Repair disk created later for each customer's machine	All
APC PowerChute Plus	CD	4.2.4	Software Utility for UPS monitoring	All
US Service Pack 4 CD	CD	4.0	Bug fixes for NT 4.0	All
Disk Base Cfg.	Flpy	1.0	DiskAdmin configuration of a C: & S: drive only configuration (machine specific)	All CreoServers
Disk Final Cfg.	Flpy	1.0	DiskAdmin configuration of a C: & S: and T: drives configuration (machine specific)	All CreoServers

2 HARDWARE SETUP

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 (AV2600) for example skip the section for that heading only. Start at the very next heading.

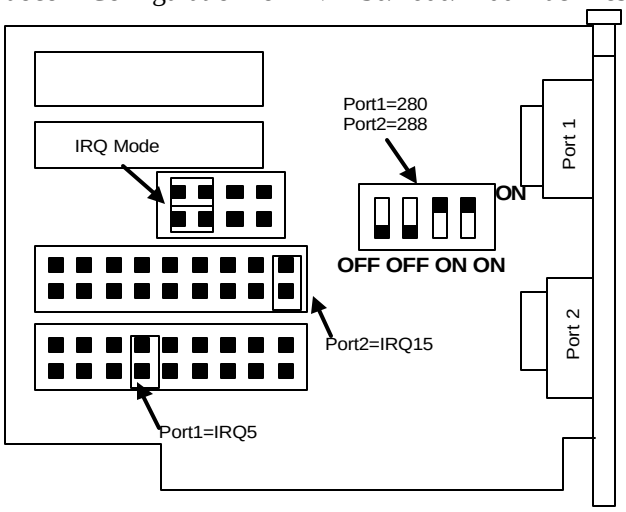
Before starting the installation procedure, go through the checklist document, and make sure that you know what hardware/software is required for the system. This can have a large influence on the setup, so don't ignore it!

2.1 Connecting Hardware

You must configure the following before installing NT.

1. Connect any external hardware as listed in section 1.2 starting from page 5.
2. Install additional network cards if requested by customer.
3. Add additional CPU's and memory DIMM's as requested by the customer.
4. Connect USR Sportster 33.600 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 Intel RIP 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.

Duocom Configuration for AV2150/2600/2700 machines



2.2 UPS connection

This applies to all Aviion systems

1. The following should be connected to the UPS.
   a) System Desk Side Housing.
   b) Monitor.
   c) Modem adapter.
   d) Clariion (if required).
   e) Other optional peripherals.
   f) Tape Library (if required).
2. For the 1400VA, the UPS should have a 15A NEMA 5-15 plug.
3. For the 2200VA, the UPS should have a 20A NEMA 5-20 plug.
4. For the 3000VA, the UPS should have a 30A NEMA 5-30 plug

2.3 Fresh System Setup (Low Level Firmware and Hardware Configuration)

2.3.1 AV2150/2600 - System Configuration Utility (SCU)

*To be used only for AV2600. For AV2150, use **only if errors** regarding IRQ functionality are encountered*

1. On power-up, press <CTRL> <A> during **Adaptec AIC-7880 BIOS** boot up prompt to run SCSI Select
2. Select **Configure/View Host Adapter Settings**
3. Select **Advanced Configuration Options**
4. Set **BIOS Support for Bootable CD-ROM** **Enabled**

5. Press <ESC>, <ESC> and press “Yes” to save changes

6. Press <ESC> and “Yes” to reboot.

7. Insert the **DG Config Assist CD-ROM** into drive, power up the Server, wait for the Config Assist menu to be displayed

8. Select **Onsite Support**

9. Select **AV2150** or **AV2600**

10. Select **SCU** menu

11. Run **CD SCU and Diskette** menu

12. Select **1a. Load CD SCU** – this loads files and comes back to the Config Assist menu

13. Select **2. Load Additional Info** (if you have a disk with **.cfg** file)

14. Insert the disk containing the **!DUOC860.CFG** file when prompted and hit Enter

15. Select **3. Run SCU** – This will bring up the SCU menu

16. Select **Add and Remove Boards**

    a) Press <ESC> to bypass password entry prompt

    b) Select **DG Internal Modem** and press <DELETE> to remove its configuration.

    c) Press <INSERT> to add board, select **Duocom 3088 config !DUOC860.CFG**

    d) Press <CR> twice, then <ESC> to continue

    e) Select **Change Configuration Settings**

    f) Select **Duocom 3088 Controller** and press <F8> to lock the resources.

    g) Press <F9> to enter Advanced Menu

    h) Select **Global Resource Map** from menu

    i) Confirm IRQ settings of remaining cards:

IRQ	**Device**
0	Timer
1	Chipset
3	COM 2
4	COM 1
5	DuoCom COM 3
6	On-Board Floppy Controller
7	Parallel Port
8	RTC
9	**SCSI**
9	**SCSI**
10	**Ethernet**
12	Keyboard and Mouse Operations
13	Math Co-processor

15 DuoCom COM 4

Interrupts for PCI controllers (bold) may differ.

j) Press <CR>, <ESC> to continue

k) Modify any of the boards IRQs as necessary.(You can force the SCSI to share an IRQ so you can reassign the remaining IRQ to a non PCI board.)

l) Press <ESC> to continue

m) Select **Save Configuration**

n) **Exit SCU** and Select **Yes** to exit to DOS. Do not Reboot now. This will take you back to the Config Assist menu.

o) Choose **5. Finished**

p) Choose **Reboot system** to restart the computer.

17. On power-up, press <CTRL> <A> during **Adaptec AIC-7880 BIOS** boot up prompt to run SCSI Select

18. Select **Configure/View Host Adapter Settings**

19. Select **Advanced Configuration Options**

20. Set **BIOS Support for Bootable CD-ROM** **Disabled**

21. Press <ESC>, <ESC> and press "Yes" to save changes

22. Press <CR> to reboot.

2.3.2 AV 2200 - Hardware Configuration

1. Remove the DG supplied modem from ISA slot 1.
2. If a Sealevel Duocom Serial port adapter is to be installed, ensure that adapter's jumpers and DIP switch settings are set according with figure 5.
3. Install the Duocom Serial port adapter into ISA slot 1 where the DG modem was removed.
4. Hard Drives should be configured as follows:

   - Systems with single hard drives will have the disk's SCSI ID set to 0.
   - Systems with multiple hard drives will have the disk's SCSI ID's set to 0 for the first drive and incrementing from there, starting with the lower capacity drives set with the lower SCSI ID's.

     Examples of some common configurations:

     Single Drive 4GB – ID 0

     Two Drives 2GB – ID 0

4GB – ID 1

Four Drives 2GB – ID 0

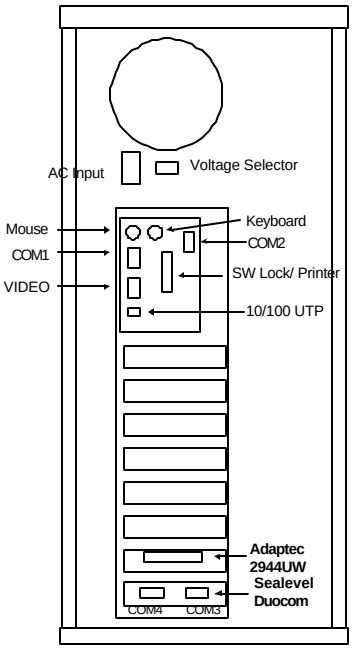
2GB – ID 1

9GB – ID 2

9GB – ID 3

5. If installed, option cards are to be placed in the following locations.

AV2150 Rear View



Card Position when installed:

Sealevel Duocom 3088	**ISA Slot 1**
Adaptec 2944UW (7462)	**PCI-1 Slot 1**

2.3.3 AV2200 - System Settings Configuration

1. Power up the system
2. BIOS settings. On power-up, press <F2> when the BIOS setup message is displayed, during memory tests.
3. From the Main screen, verify the correct Date and Time
4. Verify CPU Speed Setting is set to **400MHz**
5. From the Advanced screen, set **Reset Configuration Data** to **Yes**
6. Verify **Multiprocessor Specification** is set to **1.4**
7. From Exit screen, select **Exit Saving Changes**, and accept **Yes** on confirmation.

8. Re-boot the server, and press <F2> when the BIOS setup message is displayed, during memory tests.

9. From the Boot screen, select Boot Device Priority. Set the boot order to the following sequence
    1) Removable Devices
    2) Toshiba CD-ROM
    3) Hard Drive
    4) ATAPI CD-ROM
    5) LANDesk ® Service Agent II

10. Press <ESC> to return to the Boot screen

11. From Exit screen, select **Exit Saving Changes**, and accept **Yes** on confirmation.

12. Integrated SCSI Controller settings. On power-up, press <CTRL> <C> during **Symbios PCI SCSI BIOS** boot up prompt to run Symbios Configuration Utility.

13. Verify the following;

	Port Num	IRQ Level	Status Current	Status Next Boot	NVRAM Found
SYM53C875	F800	11	ON	ON	YES
SYM53C875	F400	10	ON	ON	YES

14. Select **Adapter Boot Order** and verify the following;

Boot Order		Bus	Dev/ Funct	Boot Order		Bus	Dev/ Funct
0	SYM53C875	00	68	1	SYM53C875	00	69

15. Press <Esc>, <Esc> to return to previous menu.

16. Select **Quit** and reboot.

17. Differential SCSI Controller settings. On power-up, press <CTRL> <A> during **Adaptec 2944UW BIOS** boot up prompt to run SCSI Select (if Adaptec 2944UW controller is installed)

18. Select **Configure/View Host Adapter Settings**

19. Select **Advanced Configuration Options**

20. Set **Host Adapter BIOS Disabled**

21. Press <ESC>, <ESC> and press “Yes” to save changes

22. Press <CR> to reboot.

23. Follow this procedure contains steps that configure a Duocom serial adapter. Even though some systems will not have one of these cards installed, the procedure should be done regardless, as the card may be added at the customer site. The !DUOC860.CFG file for the Duocom card will be required on a diskette for this procedure.

24. Insert the Server System Software CD-ROM into drive, power up the Server, wait for the N440BX System CD-ROM menu to be displayed

25. Select **Utilities**

26. Select **Run System Setup Utility**

27. Double click **Resources**
28. Click **No**, do not restore configuration from a backup file
29. If listed, select **ISA Card, Modem, DGC 118025414**, and press <Delete> to remove the modem configuration.
30. Double click **Baseboard: System Board** (from the Resource Configuration Add-in screen)
31. Double click **On-Board Disk Controllers** Group
32. Select **On-Board IDE Controller**
33. In the **Choice** drop down menu, select **Disable Primary and Secondary Channels**
34. Click **OK** and **Yes** to commit changes
35. Double click **Baseboard: System Board** (from the Resource Configuration Add-in screen)
36. Click **Resource Use** button
37. Verify that IRQ 3 is used for Serial Port 2 and IRQ 4 is for Serial Port 1
38. If not, double click the controller using the interrupt
39. In the **Choice** drop down menu, select **Free Resources – Re-assign at Next Boot**
40. Click **OK**, then **Yes** to commit changes
41. Double click **Baseboard: System Board**
42. Double click **On-Board Communication Devices Group**
43. Set the Serial Port 1 to **3F8 - IRQ 4** and Serial Port 2 to **2F8 - IRQ 3** and click **OK**
44. Click **OK** and **Yes** to commit changes
45. Double click **Baseboard: System Board**
46. Click **Resource Use** button
47. If there are controllers using IRQ 5 and 15, then re-configure the controllers setting them to **Free Resources – Re-assign at Next Boot**. Use the same procedures as previous steps.
48. Once IRQ 5 and 15 are available, go to the Resource configuration Add-in screen. Click **Add ISA Card**.
49. Insert the Duocom Configuration Diskette, and select the **A:** drive.
50. Select the **!DUOC860.CFG** file, and click **OK**. A message should be returned that the board was successfully added.
51. Double click **Baseboard: System Board**
52. Click **Resource Use**
53. Verify the IRQ settings are similar to the following. Note that add-in cards in **bold** will be different than listed depending on the configuration. This is acceptable.

    0 Baseboard: System Board / Timer

1 Baseboard: System Board / Chipset
3 Baseboard: System Board / Serial Port 2 Configuration
4 Baseboard: System Board / Serial Port 1 Configuration
5 ISA Card: DuoCom 3088 Dual Port Serial Controller / DuoCom COM 3
6 Baseboard: System Board / On-Board Floppy Controller
7 Baseboard: System Board / Parallel Port Configuration
8 Baseboard: System Board / RTC
9 Baseboard: System Board / ACPI SCI Interrupt
10 PCI Card: Bus nn Dev nn – SCSI Controller / SCSI Controller
10 PCI – Multifunction Controller / USB Controller
11 PCI – Ethernet Controller / Ethernet Controller
11 PCI -- Multifunction Controller / SCSI Controller
11 PCI – Multifunction Controller / SCSI Controller
12 Baseboard: System Board / Mouse Interrupt
13 Baseboard: System Board / Math Co-processor
15 ISA Card: DuoCom 3088 Dual Port Serial Controller / DuoCom COM 4

54. Close windows back to the System Setup Utility main window. Select **File – Exit** to exit the utility.

55. Click **Yes** to save the changes made

56. Click **No**, do not make a backup copy of the configuration

57. Select **Quit to DOS**

58. Reboot the system

59. Disable CD-ROM boot. On power-up, press <F2> when the BIOS setup message is displayed, during memory tests.

60. From the Boot screen, select Boot Device Priority. Reverse the boot order of the CD-ROM and Hard Drive so that the boot order is in the following sequence
    1) Removable Devices
    2) Hard Drive
    3) Toshiba CD-ROM
    4) ATAPI CD-ROM
    5) LANDesk ® Service Agent II

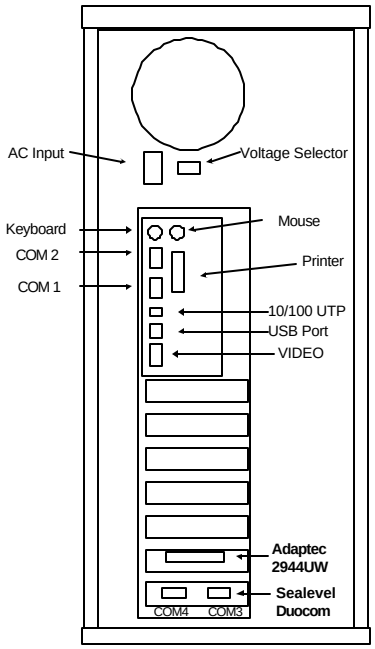
61. Press <ESC> to return to the Boot screen

62. From Exit screen, select **Exit Saving Changes**, and accept **Yes** on confirmation.

2.3.4 AV 2300 - Hardware Configuration

1. Remove the DG supplied modem from ISA slot 1.
2. If a Sealevel Duocom Serial port adapter is to be installed, ensure that adapter's jumpers and DIP switch settings are set according to figure 5.
3. Install the Duocom Serial port adapter into ISA slot 1 where the DG modem was removed.
4. If installed, option cards are to be placed in the following locations.

AV2300 Rear View

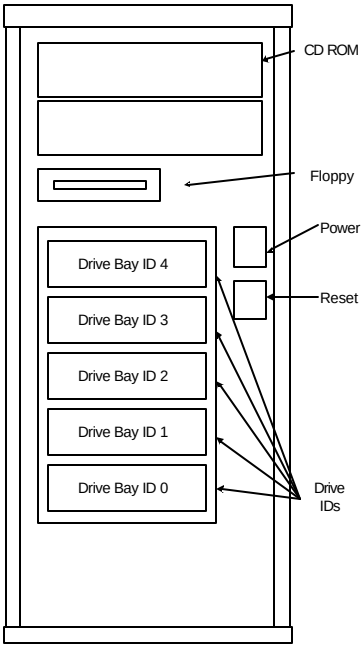


Card Position when installed:

Sealevel Duocom 3088	**ISA Slot 1**
Adaptec 2944UW (7462)*	**PCI-1 Slot 1**

5. Hard Drive configuration:

5.1. AV2300 systems feature hot swap drive bays configured from the factory with SCSI IDS set on the backplane as follows:



5.2. Systems with multiple hard drives will therefore have the disk's SCSI ID's set to 0 through 4 starting at the bottom bay.

5.3. Only 9GB drives will be used in AV2300 systems.

2.3.5 AV 2300 - System Settings Configuration

1.1 Power up the system

1.2 BIOS settings. On power-up **after memory tests**, press <F2> when the BIOS setup message is displayed.

1.2.1 From the Main screen, verify the correct Date and Time

1.2.2 Verify CPU Speed Setting is set to **500MHz**

1.2.3 From the Advanced screen, set **Reset Configuration Data** to **Yes**

1.2.4 Verify **Multiprocessor Specification** is set to **1.4**

1.2.5 From Exit screen, select **Exit Saving Changes**, and accept **Yes** on confirmation.

1.2.6 Re-boot the server, and **after memory tests** press <F2> when the BIOS setup message is displayed.

1.2.7 From the Boot screen, select Boot Device Priority. Set the boot order to the following sequence

1. Removable Devices
2. Hard Drive

3. ATAPI CD-ROM

4. LANDesk ® Service Agent II

1.2.8 Press <ESC> to return to the Boot screen

1.2.9 From Exit screen, select **Exit Saving Changes**, and accept **Yes** on confirmation.

1.3 Integrated SCSI Controller settings. On power-up, press <CTRL> <A> during **Adaptec AIC-7896 SCSI BIOS** boot up prompt to run Adaptec SCSI Select Utility.

1.3.1 Select **00:0C:A** under BUS:DEVICE:CHANNEL

1.3.2 Select **Configure/View Host Adapter Settings**.

1.3.3 Select **Advanced Configuration Options**.

1.3.4 Set **Host Adapter BIOS** to **Enabled.**

1.3.5 Press <ESC> <ESC>

1.3.6 Select **00:0C:B** under BUS:DEVICE:CHANNEL

1.3.7 Select **Configure/View Host Adapter Settings**.

1.3.8 Select **Advanced Configuration Options**.

1.3.9 Set **Host Adapter BIOS** to **Enabled.**

1.3.10 Press <ESC> <ESC> <ESC> <ESC> and Yes to save changes.

1.3.11 Select Yes to Exit utility.

1.3.12 Press<CR> to reboot.

1.4 Differential SCSI Controller settings (if Adaptec 2944UW controller is installed- See Appendix A). **After** Adaptec AIC-7896 SCSI BIOS, press <CTRL> <A> during **Adaptec 2944UW BIOS** boot up prompt to run SCSI Select

1.4.1 Select **Configure/View Host Adapter Settings**

1.4.2 Select **Advanced Configuration Options**

1.4.3 Set **Host Adapter BIOS** **Disabled**

1.4.4 Press <ESC>, <ESC> and select “Yes” to save changes

1.4.5 Press <CR> to reboot.

1.5 The following procedure contains steps that configure a Duocom serial adapter. Even though some systems will not have one of these cards installed, the procedure should be performed regardless, as the card may be added at the customer site. The !DUOC860.CFG file for the Duocom card will be required on a diskette for this procedure.

Insert the L440GX+ Server Board Resource CD-ROM into drive, power up the Server, wait for the L440GX+ System Board CD-ROM menu to be displayed

1.5.1 Select **Utilities**

1.5.2 Select **Run System Setup Utility**

1.5.3 Double click **Resources**

1.5.4 Click **No**, do not restore configuration from a backup file

1.5.5 If listed, select **ISA Card, Modem, DGC 118025414**, and press <Delete> to remove the modem configuration.

1.5.6 Double click **Baseboard: System Board** (from the Resource Configuration Add-in screen)

1.5.7 Double click **On-Board Disk Controllers** Group

1.5.8 Select **On-Board IDE Controller**

1.5.9 In the **Choice** drop down menu, select **Disable Primary and Secondary Channels**

1.5.10 Click **OK** and **Yes** to commit changes

1.5.11 Double click **Baseboard: System Board** (from the Resource Configuration Add-in screen)

1.5.12 Click **Resource Use** button

1.5.13 Verify that IRQ 3 is used for Serial Port 2 and IRQ 4 is for Serial Port 1

1.5.13.1 If not, double click the controller using the interrupt

1.5.13.2 In the **Choice** drop down menu, select **Free Resources – Re-assign at Next Boot**

1.5.13.3 Click **OK**, then **Yes** to commit changes

1.5.13.4 Double click **Baseboard: System Board**

1.5.13.5 Double click **On-Board Communication Devices Group**

1.5.13.6 Set the Serial Port 1 to **3F8 - IRQ 4** and Serial Port 2 to **2F8 - IRQ 3** and click **OK**

1.5.13.7 Click **OK** and **Yes** to commit changes

1.5.13.8 Double click **Baseboard: System Board**

1.5.13.9 Click **Resource Use** button

1.5.14 If there are controllers using IRQ 5 and 15, then re-configure the controllers setting them to **Free Resources – Re-assign at Next Boot**. Use the same procedures as previous steps.

1.5.15 Once IRQ 5 and 15 are available, go to the Resource configuration Add-in screen. Click **Add ISA Card**.

1.5.16 Insert the Duocom Configuration Diskette, and select the **A:** drive.

1.5.17 Select the **!DUOC860.CFG** file, and click **OK**. A message should be returned that the board was successfully added.

1.5.18 Double click **Baseboard: System Board**

1.5.19 Click **Resource Use**

1.5.20 Verify the IRQ settings are similar to the following. Note that add-in cards in **bold** will be different than listed depending on the configuration. This is acceptable.

0 Baseboard: System Board / Timer
1 Baseboard: System Board / Chipset
3 Baseboard: System Board / Serial Port 2 Configuration
4 Baseboard: System Board / Serial Port 1 Configuration
5 ISA Card: DuoCom 3088 Dual Port Serial Controller / DuoCom COM 3
6 Baseboard: System Board / On-Board Floppy Controller
7 Baseboard: System Board / Parallel Port Configuration
8 Baseboard: System Board / RTC
9 Baseboard: System Board / ACPI SCI Interrupt
10 PCI –Ethernet Controller/ Ethernet Controller
10 PCI – Multifunction Controller / USB Controller
11 PCI Card: Bus nn Dev nn – SCSI Controller / SCSI Controller
11 PCI -- Multifunction Controller / SCSI Controller
11 PCI – Multifunction Controller / SCSI Controller
12 Baseboard: System Board / Mouse Interrupt
13 Baseboard: System Board / Math Co-processor
15 ISA Card: DuoCom 3088 Dual Port Serial Controller / DuoCom COM 4

1.5.21 Close windows back to the System Setup Utility main window. Select **File – Exit** to exit the utility.

1.5.22 Click **Yes** to save the changes made

1.5.23 Click **No**, do not make a backup copy of the configuration

1.5.24 Select **Quit Now.**

1.5.25 Reboot the system

1.6 The following procedure disables CD-ROM boot. On power-up, press <CTRL> <A> during **Adaptec AIC-7896 SCSI BIOS** boot up prompt to run Adaptec SCSI Select Utility.

1.6.1 Select **00:0C:B** under BUS:DEVICE:CHANNEL

1.6.2 Select **Configure/View Host Adapter Settings**.

1.6.3 Select **Advanced Configuration Options**.

1.6.4 Set **BIOS Support for Bootable CD-ROM** to **Disabled.**

1.6.5 Press <ESC> <ESC> <ESC> and Yes to Save Changes.

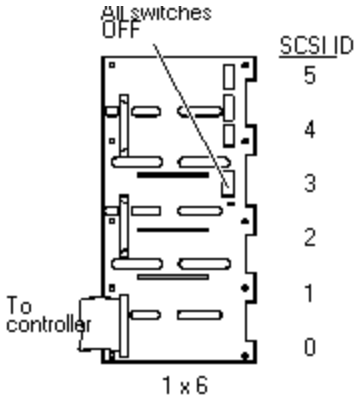
1.6.6 Press <ESC> <ESC> and Yes to Exit utility.

1.6.7 Press <CR> to reboot system.

2.3.6 AV 2700 - Hardware Configuration

1. If a Sealevel Duocom Serial port adapter is to be installed, ensure that adapter's jumpers and DIP switch settings are set according with figure 5.
2. Install the Duocom Serial port adapter into ISA slot 2 by removing the DG modem (from slot 2)
3. Configure the hot-swap backplane as following:
4. For systems **WITHOUT** a Mylex RAID controller installed, configure the backplane for a single channel.

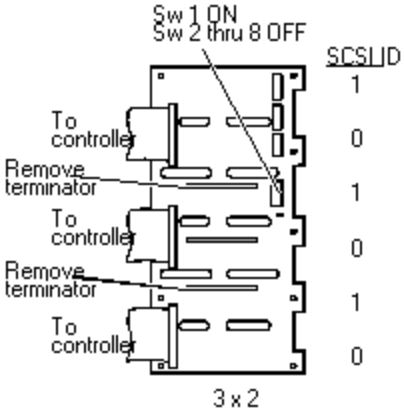
Single Channel Configuration



All switches are OFF. JP5 is stored (or out). Terminators are installed.

5. For systems **WITH** a Mylex RAID controller installed, configure the backplane for three channels. (2966CR-M - CreoServer 2/400i with Internal RAID) The three backplane channels will be connected to each of the three Mylex channels.

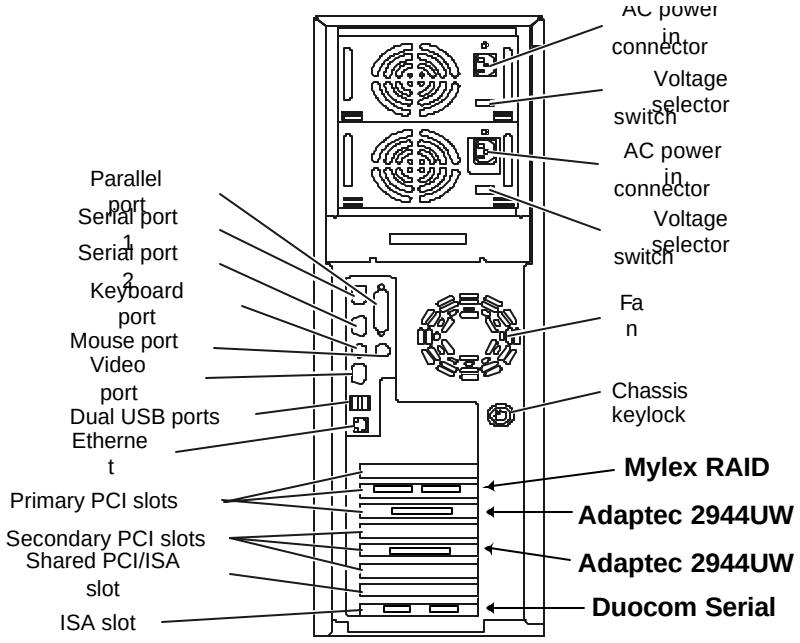
Three Channel Configuration



Switch 1 is ON, Switch 2 thru 8 are OFF. JP5 is stored (or out). Terminators are removed.

6. If installed, option cards are to be placed in the following locations.

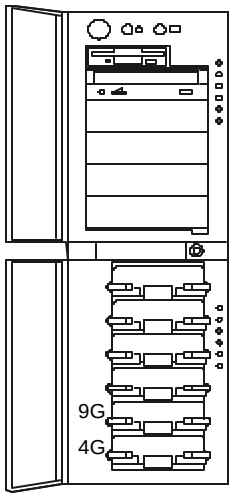
AV2700 Rear View



Mylex RAID (7486)	**PCI-0 Slot 2**
First Adaptec 2944UW (7462)	**PCI-0 Slot 3**
Second Adaptec 2944UW	**PCI-1 Slot 2**
Sealevel Duocom 3088	**ISA Slot 2**

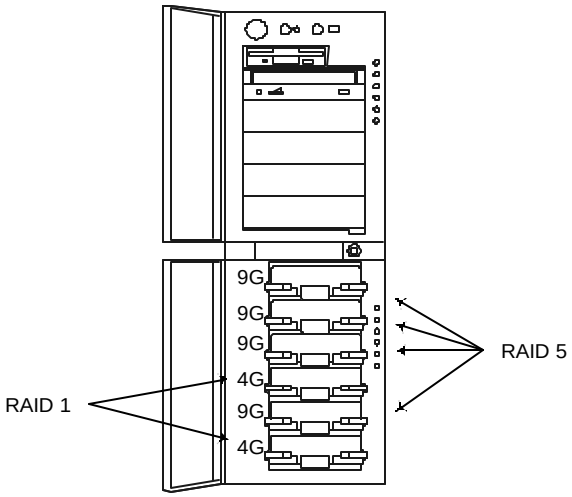
7. For each of the configurations, install the hard drives as follows:

8. Allegro 2/400i (2966CR-L) will contain one 4GB disk and one 9GB disk. The 4GB disk will be installed in the first (bottom) drive bay, and the 9GB installed in the second drive bay.

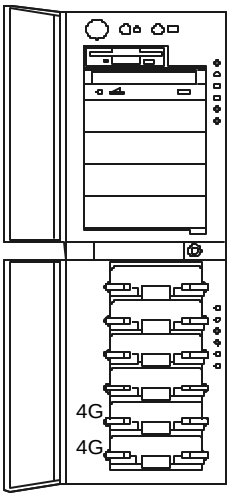


9. CreoServer 2/400i with Internal RAID (2966CR-M) will be configured with a Mylex RAID controller. The two 4GB hard drives will be installed in the first (bottom) drive bay, and the third drive bay. These two 4GB disks will

be bound as a RAID 1 mirror through the Mylex utility. The four remaining drives, installed in the remaining drive bays, are to be bound as a single RAID 5 stripe.



10. CreoServer 2/400I with CLARiiON RAID (2966CR-N) will contain two 4GB disks. These disks are to be installed in the first two (bottom) drive bays.



2.3.7 AV2700 - System Settings Configuration

1.1 Power up the system

1.2 BIOS settings. On power-up, press <F2> when the BIOS setup message is displayed, during memory tests.

1.2.1 From the Main screen, verify the correct Date and Time

1.2.2 From the Advanced screen, set **Reset Configuration Data** to **Yes**

1.2.3 Verify **Multiprocessor Specification** is set to **1.4**

1.2.4 Verify **Local Bus IDE adapter** is set to **Disabled**

1.2.5 Select **Resource Configuration**, then **IRQ Reservation**

1.2.5.1 Set **IRQ5** to **Reserved**

1.2.5.2 Set **IRQ15** to **Reserved**

1.2.5.3 Verify all other IRQ's are set to Available

1.2.5.4 Type <Esc> twice to return to the Advanced Screen

1.2.6 For systems **WITHOUT** a Mylex RAID controller installed, set **Embedded PCI SCSI Channel A** to **Enabled**. (2966CR-L - Allegro 2/400i and 2966CR-N - CreoServer 2/400i with CLARiiON disk)

1.2.7 For systems **WITH** a Mylex RAID controller installed, set **Embedded PCI SCSI Channel A** to **Disabled**. (2966CR-M - CreoServer 2/400i with Internal RAID)

1.2.8 Verify that **Embedded PCI SCSI Channel B** is set to **Enabled**

1.2.9 From Exit screen, select **Exit Saving Changes**, and accept **Yes** on confirmation.

1.3 Integrated SCSI Controller settings. On power-up, press <CTRL> <A> during **Adaptec AIC-7890 BIOS** boot up prompt to run SCSI Select.

1.3.1 Select the first channel (bus:device) and press <CR>

1.3.2 Select **Configure/View Host Adapter Settings**

1.3.3 Select **Advanced Configuration Options**

1.3.4 Set **Host Adapter BIOS** **Enabled**

1.3.5 Set **Extended BIOS Translation for DOS Drives >1GB** **Enabled**

1.3.6 Set **BIOS Support for Bootable CD-ROM** **Disabled**

1.3.7 Press <ESC>, <ESC> and select "Yes" to save changes

1.3.8 Press <ESC> to return to the channel selection window

1.3.9 If two channels are enabled, repeat settings for the second channel

1.3.10 Press <ESC> and select Yes to exit utility

1.3.11 Press <CR> to reboot

1.4 Differential SCSI Controller settings. On power-up, press <CTRL> <A> during **Adaptec 2944UW BIOS** boot up prompt to run SCSI Select (if Adaptec 2944UW controller is installed)

1.4.1 Select **Configure/View Host Adapter Settings**

1.4.2 Select **Advanced Configuration Options**

1.4.3 Set **Host Adapter BIOS** **Disabled**

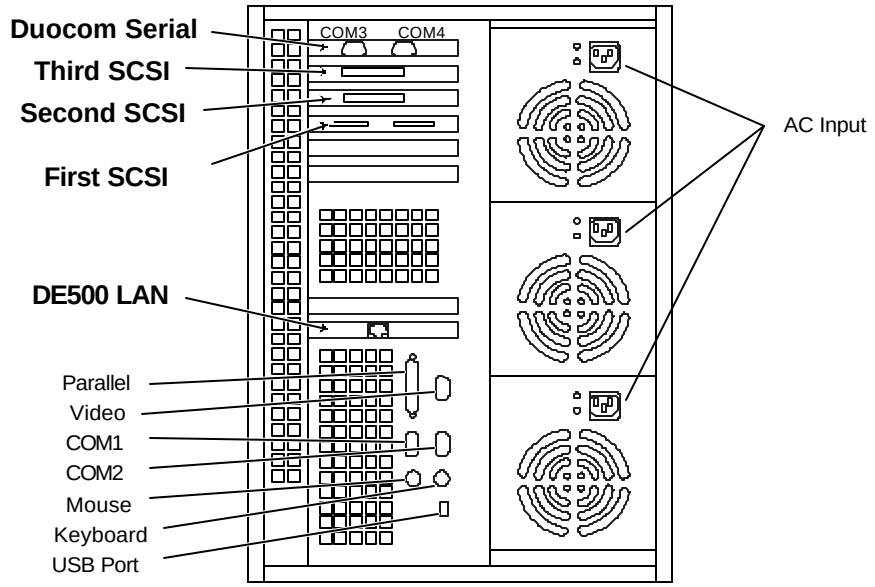
1.4.4 Press <ESC>, <ESC> and press “Yes” to save changes

1.4.5 Press <CR> to reboot.

2.3.8 AV3700 - Hardware Configuration

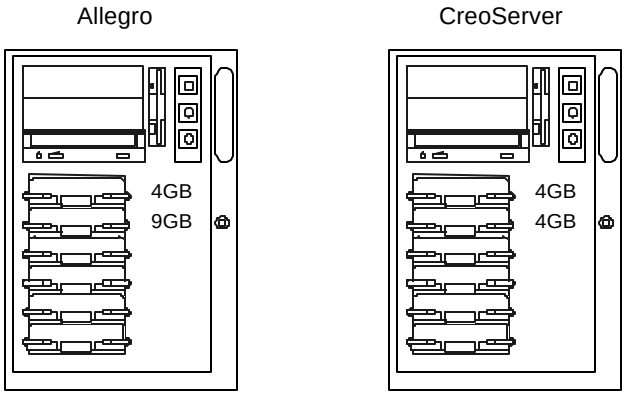
1. Remove the DG supplied modem from ISA slot 1.
2. If a Sealevel Duocom Serial port adapter is to be installed, ensure that adapter’s jumpers and DIP switch settings are set according to the Figure 5.
3. Install the Duocom Serial port adapter into ISA slot 1 where the DG modem was removed.
4. If installed, option cards are to be placed in as described in Figure 1 “Rear View”.
5. For each of the configurations, install the hard drives as follows:
6. Install the hard drives from the top down, with the smaller capacity drives being installed in the first (top) drive bays. Larger capacity drives will be installed below all smaller capacity drives.

AV3700 Rear View



First LAN Controller	**PCI-A1**
First SCSI Controller	**PCI-B1**
Additional SCSI Controller	**PCI-B2**
Additional SCSI Controller	**PCI-B3**
Sealevel Duocom 3088	**ISA Slot 1**

AV3700 Front View



2.3.9 AV3700 - System Settings Configuration

1. Power up the system
2. BIOS settings. On power-up, press **<F2>** when the BIOS setup message is displayed, during memory tests.
3. From the Main screen, verify the correct Date and Time
4. From the Advanced screen, set **Reset Configuration Data** to **Yes**
5. From the Boot screen, set **BIOS Boot Spec Support** to **Enabled**.
6. From Exit screen, select **Exit Saving Changes**, and accept **Yes** on confirmation.
7. Re-boot the server, and press <**F2**> when the BIOS setup message is displayed, during memory tests. From the Boot screen, select **Boot Device Priority**. Set the boot order to the following sequence
    1. Removable Devices
    2. Hard Disk
    3. SLT 40 TGT 05 LUN 0 CD-ROM XM-62 (8XX Symbios)

4. ATAPI CD-ROM Drive

8. Press <**ESC**> to return to the Boot screen.

9. From the Exit screen, select **Exit Saving Changes**, and accept **Yes** on confirmation.

10. Integrated SCSI Controller settings. On power-up, press **<CTRL> <C>** during **Symbios Adaptec BIOS** boot up prompt to run SCSI Setup.

11. From the Main Menu, select **Adapter Boot Order** and change the Boot Order to the following settings:

Boot Order		Bus	Dev/ Funct	Boot Order		Bus	Dev/ Funct
2	SYM53C810	00	40	1	SYM53C896	01	18
0	SYM53C896	01	19				

12. To change these settings, with the arrow keys, select the device

13. Select the device (with arrow keys), <Enter>. At the bottom of the screen the message "**Enter New Sequence Number**" is displayed.

14. Enter the correct number and press <Enter>. Repeat for each device.

15. Return to the Main Menu <ESC>

16. Select **Quit** to exit the BIOS setup and re-boot.

17. Differential SCSI Controller settings. On power-up, press <CTRL> <A> during **Adaptec 2944UW BIOS** or **Adaptec 3944AUWD BIOS** boot up prompt to run SCSI Select (if an Adaptec 2944UW of Adaptec 3944UW controller is installed)

18. Select **Configure/View Host Adapter Settings**

19. Select **Advanced Configuration Options**

20. Set **Host Adapter BIOS** **Disabled**

21. Press <ESC>, <ESC> and press "**Yes**" to save changes

22. Press <CR> to reboot.

SSU Settings

1. Boot system using the SSU diskettes.

2. Change diskettes as prompted.

3. At the ROM-DOS Startup Menu, select **2 - Booting from ROM-DOS**

4. Once the SSU utility has started, double click **Resources**

5. Click **No**, do not restore configuration from a backup file

6. Double click **Baseboard: System Board** (from the Resource Configuration Add-in screen)

7. Click **Resource Use** button

8. Verify that IRQ 3 is used for Serial Port 2 and IRQ 4 is for Serial Port 1
9. If not, double click the controller using the interrupt
10. In the Choice drop down menu, select **Free Resources- Re assign at next reboot**
11. Click **OK**, then **Yes** to commit changes
12. Double click **Baseboard: System Board**
13. Double click **On-Board Communication Devices Group**
14. Set Serial Port 1 to 3F8 - IRQ 4 and Serial Port 2 to 2F8 - IRQ 3 and click **OK**
15. Click **OK** and **Yes** to commit changes
16. Double click **Baseboard: System Board**
17. Click **Resource Use** button
18. If there are controllers using IRQ 5 and 15, then re-configure the controller by double clicking the controller and selecting **Free Resources- Re assign at next reboot** in the Choice window.
19. Once IRQ 5 and 15 are available, go to the Resource configuration Add-in screen. Click **Add ISA Card**.
20. Insert the Duocomm Configuration Diskette, and select the **A:** drive.
21. Select the **!DUOC860.CFG** file, and click **OK**. A message should be returned that the board was successfully added.
22. Double click **Baseboard: System Board**
23. Click **Resource Use**
24. Verify the IRQ settings are similar to the following. Note that add-in cards in **bold** will be different than listed depending on the configuration. This is acceptable providing the Ethernet and RAID controllers do not share the same IRQ.

0	Baseboard: System Board / Timer
1	Baseboard: System Board / Chipset
3	Baseboard: System Board / Serial Port 2 Configuration
4	Baseboard: System Board / Serial Port 1 Configuration
5	ISA Card: DuoCom 3088 Dual Port Serial Controller / DuoCom COM 3
6	Baseboard: System Board / On-Board Floppy Controller
7	Baseboard: System Board / Parallel Port Configuration
8	Baseboard: System Board / RTC
9	Baseboard: System Board / ACPI SCI Interrupt
10	**PCI Card: Bus nn Dev nn – SCSI Controller / SCSI Controller**
10	**PCI – Multifunction Controller / USB Controller**
11	**PCI – Ethernet Controller / Ethernet Controller**
11	**PCI -- Multifunction Controller / SCSI Controller**
11	**PCI – Multifunction Controller / SCSI Controller**
12	Baseboard: System Board / Mouse Interrupt
13	Baseboard: System Board / Math Co-processor
14	Baseboard: System Board / On-Board IDE Controller
15	ISA Card: DuoCom 3088 Dual Port Serial Controller / DuoCom COM 4

25. Close windows back to the System Setup Utility main window. Select **File – Exit** to exit the utility.
26. Click **Yes** to save the changes made
27. Click **No**, do not make a backup copy of the configuration
28. Re-boot system

2.4 Configuring Mylex Raid Controller (if Installed)

2.4.1 AV 2150/2600 - Mylex controller settings and disk configuration

1. Insert DOS Setup disk #1 and boot up the system
2. Press <F3> twice to exit DOS installation process
3. Insert the Mylex Utilities diskette and type in "CD \DACCFG" <CR>, then "DACCF" <CR> to start configuring the Mylex Raid Controller card

i) Select **Advanced Functions**

ii) Select **Hardware Parameters**

Automatic Rebuilt Manager **Enabled**

StorageWorks Flt Mgmt **Disabled**

Press <ESC>

iii) Select **Physical Parameters**

Rebuilt/Add Capacity Rate **50**

Controller Read Ahead **Enabled**

Stripe Size **16**

Segment Size **16**

Press <ESC>

iv) Select **SCSI Transfer Parameters (all channels, one by one)**

Data Transfer Rate **20**

Command Tagging **Enabled**

SCSI Bus Width **16 bit**

Press <ESC>

v) Press <ESC>, <Yes> to save configuration

vi) Select **New Configuration**

(a) Select **Define Pack**

(b) Select **Create Pack**

AV2600 - Select first disk on each channel (Ch0, ID0 and Ch1, ID0)

Press <ESC>

(c) Select **Create Pack**

Select all remaining disks

Press <ESC>

(d) Select **Arrange Pack**, then Select **Pack A**

(e) Select **Arrange Pack**, then Select **Pack B** (system should do it automatically)

(f) Select **Define System Drive**

(g) Select **Create System Drive**

Select RAID 1, Entire Size, <Yes> to confirm (for Pack A = 2GB)

(h) Select **Create System Drive**

Select RAID 5, Entire Size, <Yes> to confirm (for Pack A = 12 - 28GB)

(i) Select **Toggle Write Policy**

Select RAID 1 - Write Thru

Select RAID 5 - Write Back

Press <ESC>, <ESC>, <ESC>

vii) Select **Save Configuration**, and press <Yes> to confirm

viii) Select **Initialize System Drive**

(a) Select all drives

(b) Select **Start,** Press <Yes> to confirm

Disk Initialization will proceed, this may take a while…

(c) Press <CR> to continue (after initialization is completed)

ix) Press <ESC> exit, <Yes> to confirm

2.4.2 AV 2700 - Mylex controller settings and disk configuration

1.1. On power-up, press <ALT> <M> during **Mylex DAC960 BIOS** boot up prompt to enter the Mylex BIOS options

1.2. Under BIOS Options, set **BIOS Enabled**, and **8GB drive geometry**

1.3. Press <ESC> to exit, and <CR> to reboot the system

1.4. Insert DOS Setup disk #1 and boot up the system

1.5. Press <F3> twice to exit DOS installation process

1.6. Insert the Mylex Utilities diskette and type in “CD \DACCFG” <CR>, then “DACCF” <CR> to start configuring the Mylex Raid Controller card

1.6.1. Select **Advanced Functions**

1.6.2. Select **Hardware Parameters**

Automatic Rebuild Management	Enabled
StorageWorks Flt Mgmt	Disabled

Press <ESC>

1.6.3. Select **Physical Parameters**

Rebuild/Add Capacity Rate	**50**
Controller Read Ahead	**Enabled**
Segment size	**16**
Stripe Size	**16**

Press <ESC>

1.6.4. Select **SCSI Transfer Parameters (all channels 0, 1 & 2)**

Data Transfer Rate	20
Command Tagging	Enabled
SCSI Bus Width	16 bit

Press <ESC>

1.6.5. Startup Parameters

Spin up option	Automatic
Number of devices per spin	**2**
Delay	6

1.6.6. Press <ESC>, then <Yes> to save configuration

1.6.7. Select **New Configuration**

1.6.7.1.1. Select **Define Pack**

1.6.7.1.2. Select **Create Pack**

Select first disk on the first channels (Ch0, ID0 and Ch1, ID0)

Press <ESC>

1.6.7.1.3. Select **Create Pack**

Select all remaining disks

Press <ESC>

1.6.7.1.4. Select **Arrange Pack**, then Select **Pack A**

1.6.7.1.5. Select **Arrange Pack**, then Select **Pack B** (system should do it automatically)

1.6.7.1.6. Select **Define System Drive**

1.6.7.1.7. Select **Create System Drive**

Select RAID 1, Entire Size, <Yes> to confirm (for Pack A = 4GB)

1.6.7.1.8. Select **Create System Drive**

Select RAID 5, Entire Size, <Yes> to confirm (for Pack B = 12 - 26GB)

1.6.7.1.9. Select **Toggle Write Policy**

Select RAID 1 - Write Thru

Select RAID 5 - Write Back

Press <ESC>, <ESC>, <ESC>

1.6.8. Select **Save Configuration**, and press <Yes> to confirm

1.6.9. Select **Initialize System Drive**

1.6.9.1.1. Choose Select System Drive, and select all drives

1.6.9.1.2. Choose Start Initialize, and select **Start,** Press <Yes> to confirm

Disk Initialization will proceed, this may take a while…

1.6.9.1.3. Press <CR> to continue (after initialization is completed)

1.6.10. Press <ESC> exit, <Yes> to confirm

1.6.11. Reboot the system

3 SOFTWARE INSTALLATION

3.1 Installing DOS 6.22

1. Insert **DOS Setup disk #1** and boot up the system
2. Press <F3> twice to exit DOS installation process
3. Type in “FDISK” <CR> to execute Disk Partitioning
    i) Select **Create DOS Partition**
    ii) Select **Create Primary DOS Partition**

iii) Press No to Maximum Space prompt

iv) Enter 47MB (55MB for hard drives with more than 4150MB) for Size of DOS Partition and press <ESC> to continue

v) Select **Set Active Partition**

vi) Select **Partition 1** and press <ESC>

4. Press <ESC> to reboot the system
5. Press <CR> to "Setup now" prompt
6. Select **Do not configure unallocated disk space** if prompted
7. Select Format Drive (C: drive)
8. Set Date and Time
9. Confirm US Country and Keyboard
10. Accept C:\DOS directory to install DOS to
11. Proceed with the install, change floppies as prompt.
12. Press <CR>, <CR> to reboot and remove floppy from drive

3.1.1 Installing Utilities

1. Boot DOS off the C: drive
2. Insert the **SCU/SSU** floppies (not for AV2700), type in "MD \SCU" <CR>
3. Type in "XCOPY /S A:*.* C:\SCU" <CR>
4. Copy the **!DUOC860.CFG** from the **Workflow System Intel Drivers Disk's** A:\DUOCOM directory to the **SSU** directory on the C: drive.
5. Type in "COPY A:\DUOCOM\!DUOC860.CFG C:\SSU"
6. Insert the **Mylex Configuration Utilities** floppy, type in "MD \MYLEX" <CR>
7. Type in "XCOPY /S A:*.* C:\MYLEX" <CR>
8. If Clariion Raid option is installed, Insert **DASSMGR** floppy, type in "MD \CLARIION" <CR>
9. Type in "XCOPY /S A:*.* C:\CLARIION" <CR>

3.2 Installing NT 4.0 Server

3.2.1 Configuring Installation for NT (NT diskettes and CD required)

1. Insert **Diskette 1 Setup** from **NT 4.0** package and reboot the system
2. When prompted, insert disk 2, then press <CR>

3. Press <CR> at **Welcome to Setup** window to select **SETUP Now**

4. For AV2150 and AV2600 press <CR> and accept the defaults (**AIC78xx** controller)

   For AV2200, AV2300, AV2700 and AV3700 Press **S** to skip mass storage device detection, then at next screen, press **S** again to specify additional SCSI adapters

5. Insert the specific drivers diskette provided with the system by DG and choose:

   - **For AV2200:**

     Symbios Logic PCI (53C8xx)

     Adaptec AHA-290x/291x/294x/394x/4944/AIC 78xx PCI SCSI Controller (NT 4.0)
     (**if Adaptec AHA2944UW or AHA3944AUWD or AHA2940UW controller is installed)**

   - **For AV2300:**

     Adaptec AHA-294XU2/295XU2/395XU2/AIC-789X PCI SCSI Controller(NT 4.0)

   - **For AV2700:**

     Adaptec AHA-294xU2/295xU2/AIC-789xPCI Ultra2 SCSI Controller(NT4.0)

   - **For AV3700:**

     Symbios Logic PCI (53C8xx)

     Symbios PCI High performance Driver

     Adaptec AHA-290x/291x/294x/394x/4944/AIC 78xx PCI SCSI Controller (NT 4.0)
     (**If Adaptec AHA3944AUWD or AHA2944UW or AHA2940UW controller is installed**)

6. Press **S** to add the Mylex Controller - **if installed in the system**. When prompted for manufacturer drivers disk, insert the Mylex NT drivers disk – DAC960 (provided with the system by DG) and press <CR>

7. Highlight **Mylex DAC960 Disk Array Adapter** and click <CR>

8. Press <CR> to continue (you will be prompted for NT disk 3, NT CD and again for the disks of all the mass storage devices drivers you previously installed)

9. Press <Page Down> through License Agreement and press <F8> to continue

10. At current machine type screen, make sure computer option is **"MPS Multiprocessor PC"** and hit <CR>

11. Select partitions according to the following:

For Allegro

- Select "**Unpartitioned Space**" of the second drive
- Press <C> to create a new partition (NT will assign drive letter D to this partition) and press <CR>
- Select "**Unpartitioned Space**" of the first drive

- Press <C> to create a new partition (NT will assign drive letter E to this partition) and press <CR> to accept the entire remainder of space of 2000MB

For CreoServer

- Select "**Unpartitioned Space**" of the first drive
- Press <CR> to accept the entire remainder of space

For System based on the AV2150 with Single 4GB drive installed

- Select "**Unpartitioned Space**" of the drive (off the **AIC78xx** controller)
- Type in "2000" <CR> to create a 2GB partition (NT will assign drive letter D to this partition) of the single 4GB drive

12. Select newly created partition to install NT into according to the following:

For Allegro

- Select **E: partition (2000MB in size)**

For CreoServer and AV2150 system

- Select **D: partition (2000MB in size)**

13. Select **Format the partition using NTFS**
14. Hit <CR> to accept the NT path "**\WINNT"** name given.
15. Hit <CR> to **Do Exhaustive Tests**. It doesn't take long.
16. The machine will install some more files. Wait.
17. Hit <CR> at the prompt to reboot the machine
18. Press <CTRL> <A> during Adaptec AIC78xx Ultra W BIOS boot up prompt to run SCSI Select
    a) Select **Configure/View Host Adapter Settings**
        i) Select **Advanced Configuration Options**
        ii) Select **BIOS Support for Bootable CD-ROM Disabled**
        iii) Press <ESC>, <ESC> and press "Yes" to save changes
    b) Press <CR> to reboot.
19. The Server should now convert your disk to NTFS while booting up into graphic mode
20. Click **Next** to **Gathering Info** prompt at Windows NT Setup screen.
21. At the machine **Name** and **Company** prompt;
    a) Enter one of the following names;
        - **PlateMaster**

- **CreoServer**
- **TrendServer**
- **Allegro Workstation**

b) Enter **Creo Products Inc.** for organization and click **Next**.

22. Enter the **CD Key** (off the CD case or OEM certificate) and click **next**

23. Choose the licensing mode.

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

b) Hit **Next**.

24. 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, CS300)

or **CW**n for Allegro Workstation

Hit **Next** to accept computer name.

25. Set **Server Type** to **Stand-Alone Server** and click **Next**.

26. Enter **creo** to the **Administration Password** prompt and click **Next**.

27. Select **NO emergency repair disk** and click **Next**.

28. Select **Next** to the default Install Windows Components.

3.2.2 Setting up Network Selection

1. Click **Next** to **Install Windows NT Networking**.

2. Select **Wired Network** and click **Next**.

3. Uncheck **Microsoft Internet Information Service** and click **Next**.

4. Select the following network drivers:

AV2150/2600:

Select **Start Search** and the option below is displayed:

- Intel 82557 Intel 82557-based 10/100 Ethernet PCI Adapter and hit **OK**.

Or, from Creo Drivers Disk (if is a FDDI card)

Select **Have Disk…** and type in the path "**A:\FDDIV29\"** <CR> when prompted and the option below is displayed :

- FDDI DEC FDDI Controller/PCI. and hit **OK**.

AV2200, AV2300, AV2700 or AV3700:

Click **Select from the list** , then click **Have Disk,** insert Intel Express Adapter or DE500 drivers disk (provided with the system by DG) and press <CR>

- Select **Intel Ether Express PRO Adapter** (for AV2200, AV2300 and AV2700) or **DE500** (for AV3700) and hit OK

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

   - TCP/IP
   - NetBEUI

6. 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**.

7. Click **Next** to install selected network components.
8. Select **100BaseTx or 10BaseT** (according to the local network type) for the **Intel 82557** or **DE500** NIC's and hit **Continue**.
9. Click **Yes** to **DHCP** prompt.
10. Wait while files are installed
11. Click **OK** at the **Microsoft SNMP Properties** window
12. Click **OK** to the "**AppleTalk Protocol Properties**" window
13. Click **Next** to the **Bindings** prompt. Expand each service and verify TCP/IP is first in list of protocols.
14. Click **Next** to **Start The Network**.
15. Enter **PlateMaster** (or applicable) for the **WorkGroup** name and click **Next**.
16. Select **Finish** to finish the setup.

3.2.3 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 **Done**.

3. Update Video Mode;

a) Hit **OK** to allow automatically detecting video adapter.

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

Allegro VLF, CTP

i)	Colors	256
ii)	Desktop Area	800x600
iii)	Font Size	Small
iv)	Refresh Frequency	75 Hertz

Allegro TS, TSVLF

v)	Colors	256
vi)	Desktop Area	1024x768
vii)	Font Size	Small
viii)	Refresh Frequency	75 Hertz

CreoServer

ix)	Colors	256
x)	Desktop Area	1024 * 768
xi)	Font Size	Small
xii)	Refresh Frequency	75 Hertz

xiii) Hit **Test** to see that the resolution is OK

xiv) Follow the prompts back if everything is OK and save changes as required

xv) Wait while files are being loaded

xvi) Hit **Restart Computer**

4. **Close** the **Welcome to Windows** prompt.

3.2.4 Setting Standard Drive Letters

All Workflow Systems have adopted a strict drive letter convention where C: is the DOS drive, S: the system drive, T: the data drive, and H: the CDROM for ***CreoServer***. Where as C: is the DOS drive, E: the system drive, D: the data drive, and H: the CDROM for ***Allegro.*** 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. You don't get a second chance!

2. Change the drive letters to:

Allegro and AV2150 System as an CRI Workstation

a) **Right Click** the CDROM, select **Assign Drive Letter**, choose Drive **H:** and hit **OK**

Allegro ONLY

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

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

CreoServer and AV2150 System as CreoServer

d) **Right Click** the CDROM, select **Assign Drive Letter**, choose Drive **H:** and hit **OK**

3. Change the System Disk.

a) **Right Click** the system Disk (second partition of the 1st disk, E: for ***Allegro*** or D: for ***CreoServer and AV2150***) and select **Properties**.

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

CreoServer and AV2150 System as CreoServer

c) **Right Click** the System Drive, select **Assign Drive Letter**, choose Drive **S:** and hit **OK.**.

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

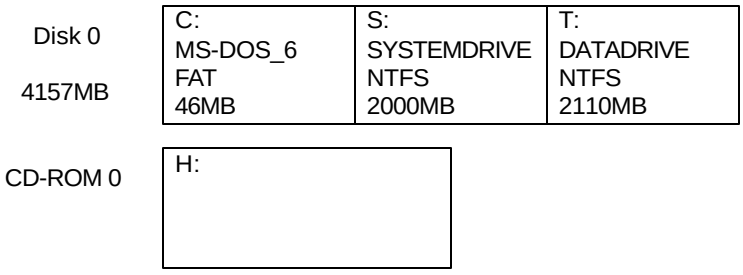
AV2150 System as an CRI Workstation

e) **Right Click** the System Drive, select **Assign Drive Letter**, choose Drive **E:** and hit **OK.**.

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

Finally, the configuration should look as following:

Creo Satellite



Allegro 3230 and ***CRi Workstation 2/300i***

Disk 0 4157MB	C: MS-DOS_6 FAT 46MB	E: SYSTEMDRIVE NTFS 2000MB	D: DATADRIVE NTFS 2110MB
CD-ROM 0	H:		

Allegro 2/300i

Disk 0 2071MB	C: MS-DOS_6 FAT 46MB	E: SYSTEMDRIVE NTFS 2024MB
Disk 1 4157MB	D: DATADRIVE NTFS 4157MB	
CD-ROM 0	H:	

Note that hard drive sizes may vary.

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

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

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

7. Fix the Virtual Memory.

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

   b) Select drive **S: (*CreoServer*)** or **E: (*CRI Workstation*)**

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

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

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

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

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

h) Hit **YES** to warning **Another File Exists With Filename S:\PAGEFILE.SYS ... (*CreoServer*)** or **E:\PAGEFILE.SYS ... (*CRI Workstation*)**

i) Select the **Startup/Shutdown** tab.

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

k) Select **Hardware Profiles** tab

l) Check **Wait for User Selection for** and set to **5** seconds.

m) Select **Close** and select **Do Not Reboot Now**

8. Create Data Drive for ***AV2150*** System

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

b) **Right Click** the un-partitioned area and select **Create…**

CRI Workstation

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

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

CreoServer

e) **Right Click** the free partition, select **Assign Drive Letter**, choose Drive **T:** and hit **OK**

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

g) **Right Click** the T: partition and select **Commit changes,** then **Yes/OK**

h) Set **File System** = **NTFS**, **Label** = **DATADRIVE,** check **Quick Format** and click **OK** to start formatting T drive, Click **OK** when format is complete

i) Exit **Disk Administrator**.

9. REGISTRY editing to replace CD-ROM drive letter reference from E: to H: and System drive from D: to S: for ***CreoServer***, and CD-ROM drive letter reference from F: to H: for ***Allegro*** using REGFIND.EXE (from NT 4.0 ResourceKIT)

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

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

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

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

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

CreoServer

- Type in "REGFIND –y E:\ -r H:\" <CR>
- Type in "REGFIND –y D:\ -r S:\" <CR>

Allegro

- Type in “REGFIND –y F:\ -r H:\” <CR>

CRI Workstation

- Type in “REGFIND –y E:\I386 -r H:\I386” <CR>
- Type in “REGFIND -y D:\WINNT -r E:\WINNT” <CR>

3.2.5 Adding 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, TrendServer or CTPOperator
   - Password/Confirm creo
   - Unchecked User must change password at next logon.
   - Select **Add**.
8. Enter the following;
   - UserName CreoService
   - Password/Confirm pathfinder
   - Unchecked User must change password at next logon.
   - Select **Add**.
9. Select **Close**.
10. **Close** User Manager.

3.2.6 Setting up COM3 and 4

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 after adding COM3):

COM #:	COM3	COM4
Base I/O Port Address:	280	288

Interrupt Request Line (IRQ) 5 15

3. Close the **Ports** menu.

4. Restart NT.

3.2.7 Installing/Upgrading Other NT Drivers

1. Install other network services.

   a) Install MAC Services (if it's NOT already installed)

      i) Select **Start / Settings / Control Panel / Network / Services / Add.**

      ii) Select **Service For Macintosh** and hit **OK**.

      iii) Hit **Continue** to default H:\I386 path.

   b) Install Remote Access Services;

      i) Turn the modem off.

      ii) Select **Add**.

      iii) Select **Remote Access Services** and hit **OK**.

      iv) Hit **Continue** to default H:\I386 path.

      v) Hit **Yes** to invoke modem installer.

      vi) Check **Don't detect my modem** and hit **Next**.

      vii) **Select the following** and then hit **Next**;

      - Manufacturer US Robotics Inc.
      - Models Sportster 28800-33600 External

      viii) Select **COM4** and hit **Next**..

      ix) Select the following and then hit **Next**.

      - Country United States (default)
      - Area 604

      x) Click **Finish**.

      xi) Click **OK** to Add RAS Device window.

      xii) Click **Configure** in Remote Access Setup window.

      xiii) Select **Dial Out and Receive Calls** and hit **OK**.

      xiv) Click **Continue** in Remote Access Setup window.

      xv) Accept **Entire Network** and hit **OK** for Net BEUI window.

      xvi) Accept **Entire Network** and hit **OK** for TCP/IP window.

xvii) Click **OK** to Remote Access successfully installed.

c) Click Close to Network window.

d) Click **Yes** to restart the computer.

e) Log onto **Administrator** account

2. Setup Tape Driver(s)

a) Select **Start / Settings / Control Panel / Tape Devices.**

b) Select **OK** to the detected **SONY 4mm DAT** driver (***Allegro***)

c) Add DLT driver for Archiver **only if applicable (*CreoServer*)**.

i) Select **Start / Settings / Control Panel / Tape Devices**

ii) Select **OK** to the detected **Quantum DLT4000** driver

iii) Accept default path "**H:\I386"** and click **OK**

d) Click **OK** to exit **Tape Device Setup**

e) Close **Control Panel** window.

3. Set RAS permissions.

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, TrendServer or CTPOperator

e) Select **OK**

f) Close Remote Access Admin

4. Set 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

3.2.8 Configuring Performance Settings

1. 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 (*CreoServer*)** or

   c) Select Option: **Minimize Memory Used** and click **OK** and **Close (*Allegro*)**

   d) Hit **Don't Restart Now**

2. Set Performance Boost for Foreground apps to 0.

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

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

   c) Select **OK**.

   d) Close Control Panel.

3. 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>**.

4. Perform the following network test. Make sure you are connected to a network!

   a) Open **File Manager** by Selecting **Start / Run,** then type in "**WINFILE**" and hit <CR>

   b) Select **Disk**

   c) Select **Connect Network Drives**

   d) See if all the computers on the network can be seen.

   e) Try to connect to a user machine. If this fails, there is a network problem. Consult an expert.

   f) Select Disk

   g) Select **Disconnect Network Drive** and click **OK**

3.2.9 Installing UPS Software

1. Edit **Boot.ini** file for UPS use:

   a) Open **File Manager** by Selecting **Start / Run,** then type in "**WINFILE**" and hit <CR>

   b) Select **View** and **By File Type**

   c) Check **Show Hidden/System Files** and **OK.**

d) Select **C:** and there select **Boot.ini** file

e) Select **File** and **Proprieties**

f) Uncheck **Read Only** and **OK.**

g) Select **File** and **Run;** type in "**NOTEPAD BOOT.INI"** and **OK**

h) Edit these two lines, by adding the bolded part, as following:

multi(0)disk(0)rdisk(0)partition(X)\WINNT="Windows NT Server Version 4.00" **/NoSerialMice:COM2**

multi(0)disk(0)rdisk(0)partition(X)\WINNT="Windows NT Server Version 4.00 [VGA mode]" /basevideo

/sos **/NoSerialMice:COM2**

where (X) could be 1, 2, 3, depending of the position of the SCSI controller.

i) **Save** and **Close** the file.

j) In **File Manager,** Select **File** and **Proprieties**

k) Check **Read Only** and **OK**

2. Make sure the black UPS serial cable is plugged into COM port 2 on the computer

3. Put the **PowerChute Plus** CD in the drive.

a) If a Software Setup greeting screen pops up (Autorun), then click "**No**" at the "Reading the release notes" prompt

b) Select "**APC PowerChute Product Options**" and click "**Next**"

c) Click "**PowerChute Plus for Windows NT**" button, click "**Continue**" at the next prompt to move on to the Install menu where changes are made in step 3 below or

d) For older version of PowerChute Plus Software (i.e 4.2.4), Select **Run** and type in "**H:\US\I386\Setup" <CR>** (for ***CreoServer***) or "**H:\US\I386\Setup" <CR>** (for ***Allegro***) to get into Install menu

4. Change the following in the install menu

a) Change **Install Directory** to **S:\PWRCHUTE** for ***CreoServer*** or **E:\PWRCHUTE** for ***Allegro***

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**.

ii) Verify the Startup type for "**Remote Access Server**" and "**Schedule**" services

h) Click **Close** to **Services** window

5. Setup PowerChute user 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.

e) Reboot NT

6. Extend default shutdown delay to 180 seconds.

a) Select **Start / Programs/ PowerChute / PowerChute** and choose the current server.

b) Select **Configure/UpsShutdownParameters**.

c) Set the **UpsTurnoffDelay** to **180** and hit **OK**.

d) Close PowerChute.

7. Reboot the system.

3.2.10 Installing US Service Pack 3 and 4 for Windows NT

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. Insert the Service Pack 3 CD into drive 193132AD
2. Start up File Manager by selecting **Start/Run…,** then type in "WINFILE" <CR>
3. Click on H: drive to open the CD content, Double-click on **H:\..\I386\NT4SP3_I.EXE** file to start installing Service Pack 3 (could also be copied on the SYSTEMDRIVE – S:\Drivers\Nt4sp3)
4. Click **Next** to the Welcome prompt, select **Install the Service Pack** and click **Next**
5. Select "**Yes, I want to create an uninstall directory**" and click **Next**
6. Click **Finish** to begin Service Pack installation, wait while files are being copied
7. Click **OK** to restart NT, then log on to Administrator account

3.2.11 Creating Emergency Repair Disk

1. Label a floppy disk **Repair Disk** and put it in A:\
2. Open a command prompt window and type in **rdisk**, then <CR>
3. At the dialog box choose **Create Repair Disk**; then **OK.**

4. When done, click **OK** and then **Exit.**

5. Take out the diskette and write protect it.

6. 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.

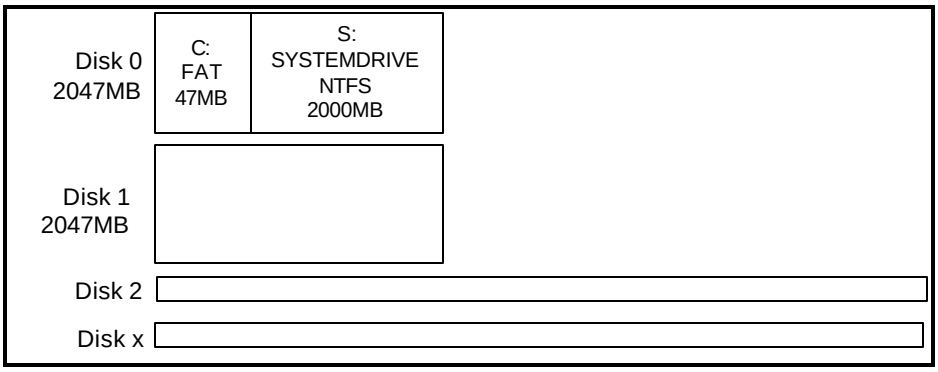
This will conclude the NT installation for ***Allegro*** Workstation, You may now proceed to install Allegro Workstation Software described in the **Allegro Workstation Software Installation Procedure** document. For ***CreoServer***, continue on through the rest of this installation.

3.2.12 Creating Mirror System Drive (NO Mylex Controller ONLY)

1. Select **Start / Programs / Administrative Tools / Disk Administrator**. Make sure you put an NT signature onto any disks that are mentioned by Disk Administrator. You don't get a second chance!

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

3. There should be three available disks and should look like the following.



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

   i) Partition 1 is the 46MB DOS 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 **Establish Mirror**

   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 **Establish Mirror**

   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,

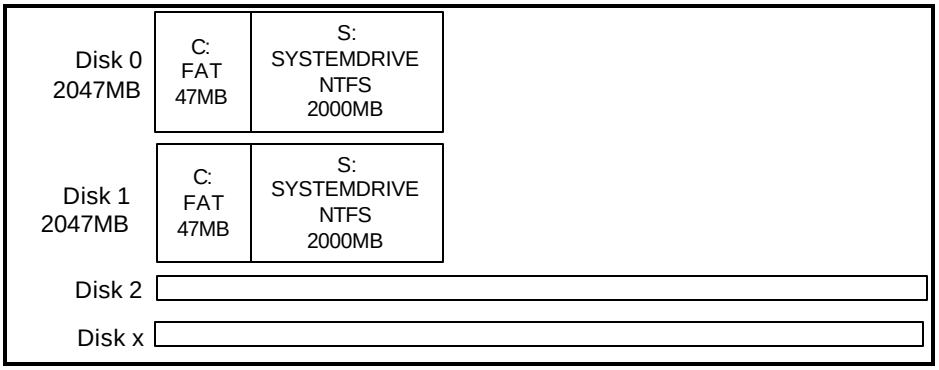
   a) Select **Partition**

   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 (in Disk Administrator):



10. Exit **Disk Administrator**.

11. Start **Event Viewer** and monitor event log. Wait until the mirror building is complete. This should take about 15 minutes.

    a) Select **Start / Programs / Administrative Tools / Event Viewer**.

    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.

3.2.13 Disk Base Configuration Backup

Stripes and mirror sets are complex disk configurations. Two backups, **Disk Base Cfg** and **Disk Final Cfg** floppies are created in case 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 create the **Disk Base Cfg** floppy and the **Disk Final Cfg** floppy after configuring the Disk sets.

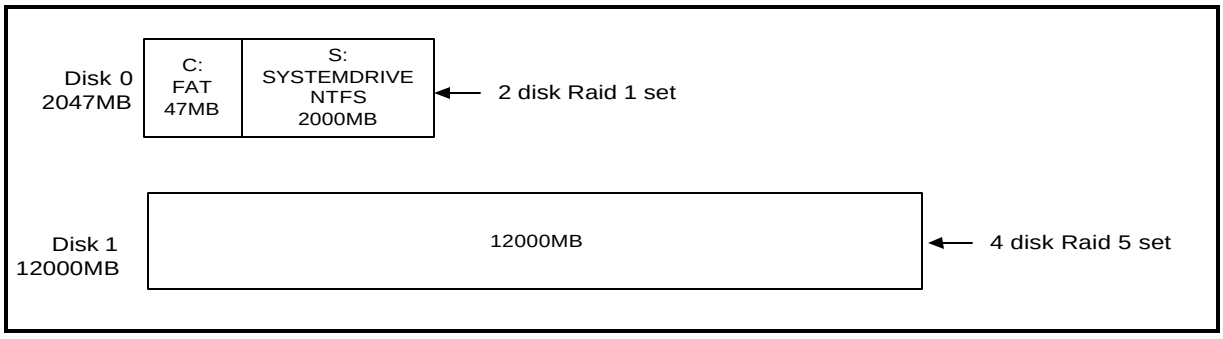
1. Start **Disk Administrator**.
2. Put the **Disk Base Cfg** floppy in.
3. Select **Partition / Configuration / Save**.
4. Hit **OK** to the prompt.
5. Close Disk Administrator.
6. Mark the date and Machine Serial Number on the floppy

3.3 Mylex DAC960 Raid Controller NT Setup

3.3.1 Creating a Mylex Logical NT Drive

1. Workflow Systems requires that the Data drive be T:. Make the changes according to the following steps.

   a) Select **Start / Programs / Administrative Tools / Disk Administrator** and the following window will display:



2. Create a NT logical disk by performing the following steps.

   a) Select Disk2 by click on the partition

   b) Select **Partition/Create**.

   c) Accept the Maximum size allowed.

   d) **Right Click** the newly created partition and select **Assign Drive Letter**.

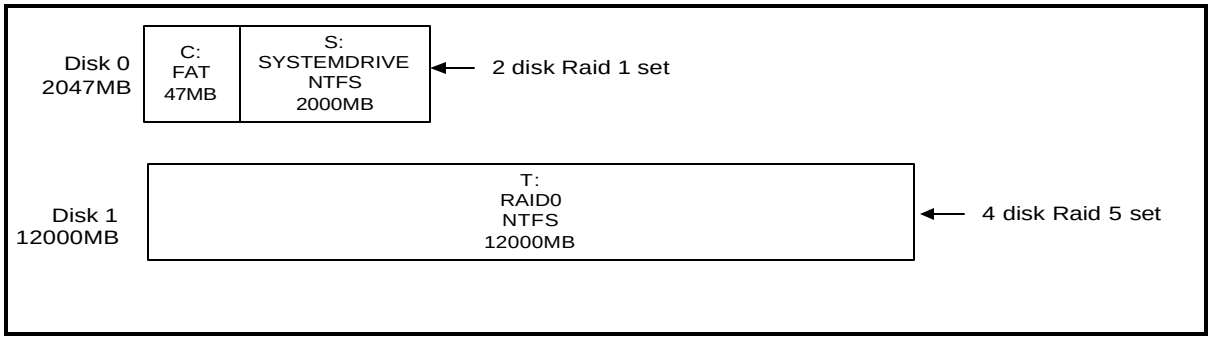
   e) Select **Assign Drive Letter** and choose Drive **T:** and hit **OK.**.

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

g) **Right Click** the T: partition and select **format…**

h) Set **File System** = **NTFS**, **Label** = **RAID0,** check **Quick Format** and click **OK** to start formatting D drive, Click **OK** when format is completed.

3. Your drive map should now look like this (in Disk Administrator).



4. Exit Disk Administrator.

3.3.2 Installing Mylex Raid Monitor Service for NT

1. Insert the **Intel Drivers** diskette into drive, create a Mylex directory on S: drive by typing in "MD \Drivers\MYLEX" <CR> from a Command Prompt window

2. Type in "COPY A:\MYLEX*.* S:\Drivers\MYLEX" <CR> to copy the Mylex Raid Monitor software to S:\Mylex directory

3. Type in "COPY S:\Drivers\MYLEX\DACMON.EXE S:\WINNT\SYSTEM32" <CR> to copy Monitor service into NT's System32 directory. Type in "CD \Mylex" <CR>

4. Type in:

"SRVCCFG DACMON DAC960Monitor S:\WINNT\SYSTEM32\dacmon.exe" <CR> to install the Raid Monitor service

NOTE: If the service is required to be removed, the command is: S:\ Drivers\Mylex\ SRVCCFG DACMON remove

5. Startup the service by performing:

a) Select **Start/ Settings/ Control Panel/ Services**

b) Highlight "**DAC960Monitor**" service and click **Start**

c) Confirm "**DAC960 SCSI RAID Controller Monitor Utility**" shows up on Taskbar

d) Highlight "**DAC960Monitor**" service and click **Startup…,** then select "**Automatic**" in the **Startup Type** window

e) Close **Services** window

6. Add Raid Administrator utility onto the Task bar:

a) Select **Start/Settings/Taskbar**…

b) Select **Start Menu Programs** tab and click **Add**

c) Click **Browse…,** Select S: drive, then select "**S:\Mylex\DACADM.EXE"** and click **Open, Next.**

d) Click **Next** to select Program Folder window

e) Type in "**Raid Administrator**" and click **Finish**

f) Click **OK** to close the Task bar setup window

g) Reboot NT.

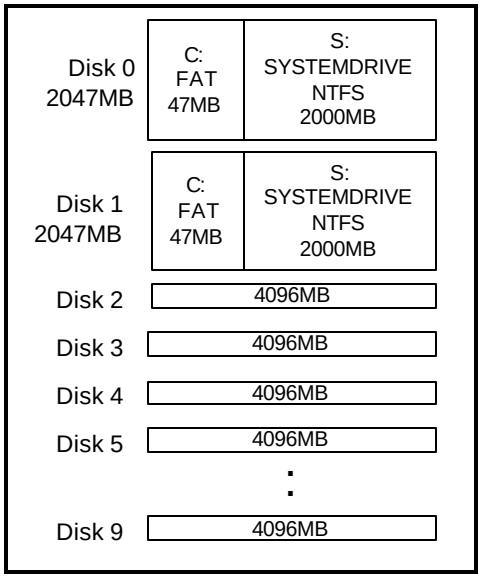
3.4 Creating a NT logical drive off NT Stripe Set

NT's Disk Administrator is used to stripe the drives as Raid0. Unfortunately this system is no longer redundant and if a drive fails the whole set is useless.

1. PlateMaster requires that the Data drive be T:. Make the changes according to the following steps.

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

   Make sure you put an NT signature onto any disks that are mentioned by Disk Administrator. You don't get a second chance! Your 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/Create Stripe Set**.

   c) Select **Partition/Commit Changes Now**.

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

   e) Go back into Disk Administrator.

3. Format **Disk 2** to NTFS and name the volume **RAID0**.

   a) **Right Click** the newly created partition and select **format…**

b) Set **File System** = **NTFS**, **Label** = **RAID0,** check **Quick Format** and click **OK** to start formatting the drive, Click **OK** when format is complete

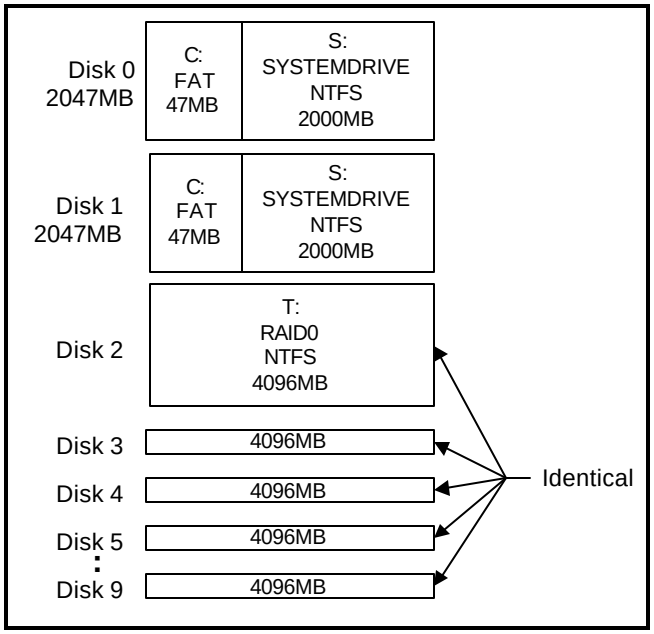
4. Change the Data Drive (newly formatted) letter.

a) **Right Click** the newly formatted partition and select **Assign Drive Letter**.

b) Select **Assign Drive Letter** and choose Drive **T:** and hit **OK.**.

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

5. Your drive map should now look like this.



6. Exit Disk Administrator.

3.5 Disk Final Configuration Backup

1. Select **Start / Programs / Administrative Tools / 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.

4 END.

This concludes the NT Installation on a Workflow Systems computer.