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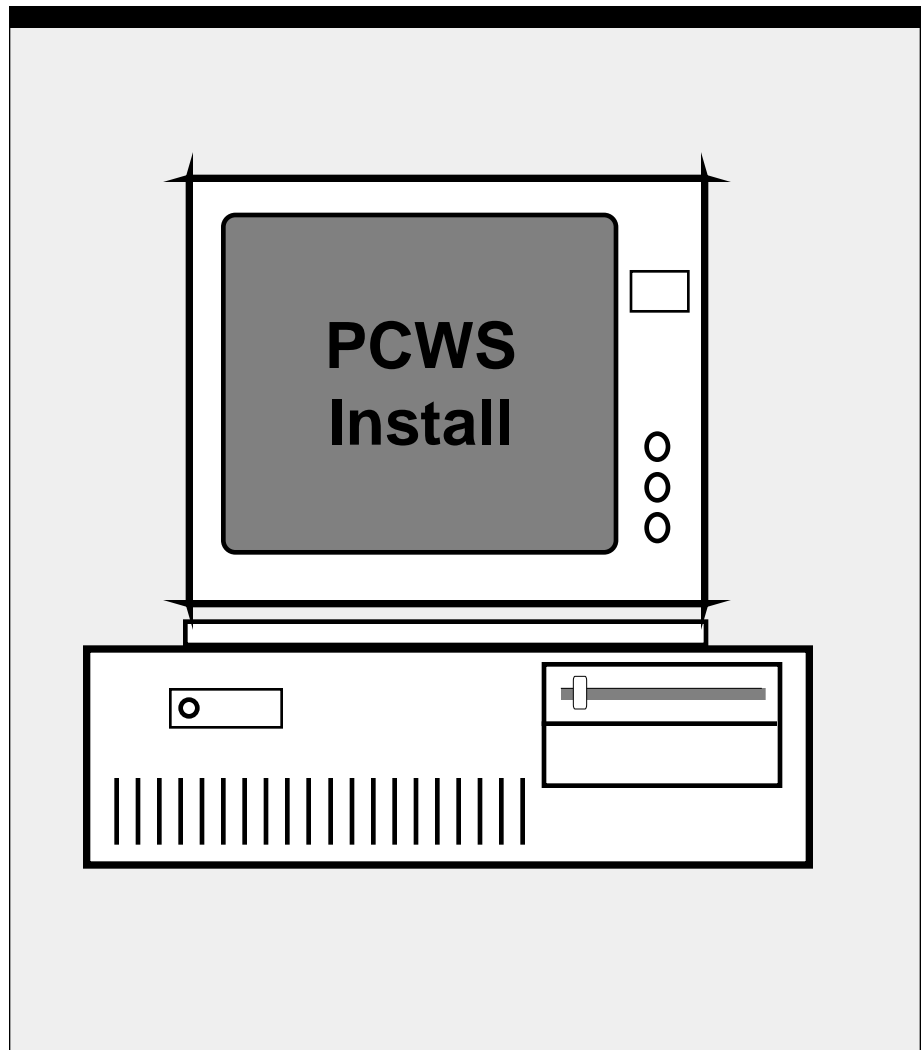
PC Workstation

Installation

Guide



SQUARE D COMPANY
CRISP AUTOMATION SYSTEMS



CRISP®
PC Workstation Installation Guide

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Document number: 500 045 - 001, Rev. 1

Document History

Revision	Date	Pages affected/Description of change
1		

Software Version

CRISP/32 Rev. 2.8 and later

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General

This manual provides a step-by-step installation procedure for the PC Workstation software. This procedure can be used for a new installation or for updating an existing system.

This manual is broken down into the following sections.

Section	Description
Requirements <i>(page 3)</i>	Defines the system requirements before installation of the PC Workstation software.
Installing DOS <i>(page 5)</i>	Defines the DOS installation procedure.
Installing PCSA <i>(page 7)</i>	Defines the DECnet installation procedure.
Installing PCWS <i>(page 9)</i>	Defines the procedures required to install PCWS software.

NOTE

Before performing this installation procedure, verify that the PC workstation hardware has been properly installed per the appropriate documentation.

PC Workstation software is designed to interface with MicroVAX or VAX systems running VMS, V5.0 or later, and CRISP/32, V2.04 and later.

Notes:

General

The following are required before PC Workstation software can be installed:

- MS-DOS, version 3.31, or PC-DOS, version 3.31
- Ethernet board
- Video-7 VGA board
- Monitor
- Digital Personal Computing Systems Architecture (PCSA) software, version 3.0 or later
- Free disk space as follows:
 - 2 Mbytes on the target disk
- A minimum of 640 kbytes of RAM
- The number of BUFFERS should equal 25
- The number of FILES should equal 20.

NOTE
<p>The BUFFERS and FILES specifications are set in CONFIG.SYS for the PC Workstation. To verify these values, at the root directory, enter <code>TYPE CONFIG.SYS</code>.</p>

Optional

The following are optional:

- For 80386 systems, an additional 1Mbyte of RAM and an expanded memory driver (refer to the PCSA Configuring Extra Memory manual)
- Floating-point Coprocessor (80 x 87) for improved pixel graphics performance.

Hardware Interrupts

The following interrupts are the default interrupts used by the PC Workstation required hardware

- IRQ2 - Video-7 VGA board (refer to the appropriate documentation for the jumper locations)
- IRQ3 - DEPCA use (refer to the appropriate DEC documentation for the jumper locations)

The following interrupts are the interrupts used by a PC Workstation with two serial interface ports.

- IRQ2 - Video-7 VGA board (refer to the appropriate documentation for the jumper locations)
- IRQ5 - DEPCA use (note that this is not the default setting of the DEPCA board, refer to the appropriate DEC documentation for the jumper locations)
- IRQ4 - Primary serial interface port (COM1:)
- IRQ3 - Secondary serial interface port (COM2:)

Description

DOS is required for operation of the PC Workstation software. Valid versions are defined in the Requirements section of this Manual.

Installation Procedure

To install DOS, refer to the appropriate vendor documentation.

Notes:

General

This section explains the PCSA V3.0 installation procedure. For detailed installation procedures, refer to the appropriate DEC manuals. If you are not familiar with this product, it is strongly recommended that you read the PCSA release notes, Installation Guide, Overview, and Memory Solutions manual before proceeding.

Installation Procedure

Perform the following steps to install PCSA hardware and software.

Step 1. Install DEC DEPCA Board

Use the default jumper settings on the board.

NOTE
If other boards are installed in the PC Workstation, IRQ interrupt and memory addressing conflicts may occur.

Step 2. Verify Location of CONFIG.SYS

Verify that CONFIG.SYS is located in the root directory. Note that DECnet modifies this file for proper startup.

Step 3. Get Node Name

Obtain the DECnet node name and address from the network administrator. Each DECnet node must have a unique name and address.

Step 4. Install PCSA Software

Refer to the PCSA installation guide for detailed information. Note that MS-Windows files are not required by the PC Workstation software.

NOTE
To perform an installation verification, the node name and address for a VAX node on the same network must be known.

Installation Procedure (cont)

Step 5. Reboot the PC Workstation

Press <ctrl>, <alt>, and <delete> simultaneously.

Step 6. Reduce DECnet Software to Minimum Memory Requirements

Copy DNPETHPC.EXE from the DECnet distribution diskettes. Rename DNPETHPC.EXE to DNP.EXE. Re-execute STARTNET.BAT.

DECnet Configuration

Perform the following steps to configure the DECnet software.

Step 1. Edit STARTNET.BAT

The DECnet software STARTNET.BAT in the root directory of the C drive must be edited to comment out loaded options that are not required for the PC Workstation. This prevents the files from being loaded into memory. The following options must be commented out.

- STUB
- REDIR
- PRTSC
- SAVE

These options are commented out by placing REM in front of them, which causes them to be treated as a remark. Use EDLIN or another text editor to edit the file.

Also, the network driver (DLL802) must be inserted in the proper location. Refer to the following example for the proper location.

The following is an example of a STARTNET.BAT and the editing that must be performed.

Commented - + Commented - + Commented - + Commented - + Insert here - +	<pre> Rem***DECnet PCSA Client for Dos Ethernet Configuration*** REM STUB REM REDIR REM PRTSC REM SAVE SCH Rem ***datalink for DEPCA Ethernet Controller*** DLL C:\DECNET\ DLL802 DNP C:\DECNET\ LAT Rem ***If you want CTERM support, uncomment the next Line*** REM CTERM Rem ***If you want NML support, uncomment the next Line*** REM NML Rem ***If you want TTT support, uncomment the next Line*** REM TTT Rem ***If you want TFA support, uncomment the next Line*** REM TFA </pre>
---	---

General

This section explains the PC Workstation Software installation procedure. Additional information is provided for configuring the PC Workstation.

Installation Procedure

Perform the following steps to install PC Workstation software.

Step 1. Insert PC Workstation Diskette

Insert the PC Workstation diskette in an appropriate drive.

Step 2. Change the Default Drive

At the DOS prompt, change your default drive to that which contains the PCWS distribution disk. For example, refer to the following.

```
A:<ret>
```

Step 3. Install PC Workstation Software

Enter the install command.

```
A:> INSTALL<ret>
```

Several prompts will be issued, requesting system configuration information. Enter the appropriate responses based on the system configuration.

System Configuration

Perform the following steps to configure the PC Workstation.

Step 1. PCWS Configuration Parameters

The following is an example of the PC Workstation configuration parameters file (CWSTART.BAT). CWSTART may be edited as required, using SEDT or EDLIN. Note, if there is more than one PC Workstation, verify that the CRTNUMs are different. The CRTNUM should also be different from that of any CWS connected to any VAX host with which you may communicate.

```
Rem These are the PCWS Configuration Parameters
SET CRTNUM=1
SET LOGACNT=0
SET CRTFILE=USER.CWS
SET SYSDSP=21
SET PRTYPE=IBM
CD\CRISP
PCWS
```

Step 2. AUTOEXEC.BAT

The following is an example of an AUTOEXEC.BAT file. This file can be edited as required for additional 'PATHS' or other applicable reason. (Do not remove any of the lines currently contained in this file.)

```
PATH C:\DOS;C\DOS UTIL
SET PATH=C:\DECNET;%PATH%
CALL STARTNET
PROMPT $p$g
CWSTART.BAT
```

Step 3 Printer Destination

The printer command file (CRTPRT.BAT) must be edited to define the remote and/or local printer ports. CRTPRT.BAT contains two files that are used for this purpose: HARDCP and LNKRPRT.

The following is an example of HARDCP showing the parameters to modify.

```
:HARDCP
Printer      Printer
Node        Port
  ô          ô
ndu create print node vaxa nprint lj250_port:screen.img
>NUL:
copy %2 nprn: >NUL:
ndu close printer >NUL:
Del %2 >NUL:
```

NOTE

- (1) The NODE to which the print device is attached must be defined using NCP.**
- (2) PROTECTION for the print device must be set for WORLD:RW (SET PROTECTION=W:RW/DEVICE TXAn:).**

The following is an example of LNKRPT showing the parameter to modify.

```
:LNKRPT
      Printer
      Port
      ô
copy %2 lpt1: >NUL:

Del  %2 >NUL:
```

Step 4. Set and Read Display Modification

The HOST SETDSP and READDSP of Display 21 must be modified for each PC Workstation (other than the first workstation, #1) if these calls are being used in the Host logic.

Step 5. Set Environment

The following parameters may be changed, either by specifying a new value with an environment setting or by using a command line switch. Note, if there is more than one PC Workstation or CWS, verify that the CRTNUMs are different.

- CRT number
- Local CRT file name
- Local default login account
- Local system display
- Printer type
- Destination SAP for Database Access server
- Destination SAP for CRISP Access server
- Auto-link report file name.

NOTE

The Environment settings are temporary and will be lost on reboot. This could affect SETDSP and READDSP of other PC Workstations if identical CRT numbers are located.

Step 5. Set Environment (cont)**Valid Selections**

The following defines the valid selections.

- CRT number
 - range = 1-50
 - default = 1
 - environment string = CRTNUM=1
 - command line switch = /c 1
- Local CRT file name
 - range = any valid filespec
 - default = USER.CWS
 - environment string = CRTFILE=USER.CWS
 - command line switch = /f USER.CWS
- Local default login account
 - range = 0-63
 - default = 0
 - environment string = LOGACNT=0
 - command line switch = /a 0
- Local system display
 - range = 1-max display in local file
 - default = 21
 - environment string = SYSDSP=21
 - command line switch = /d 21
- Printer type
 - range = IBM, EPSON, LQ1500,
SIXEL1 (B/W), SIXEL2 (color),
LJ250
 - default = IBM
 - environment string = PRTYPE=IBM
 - command line switch = /p IBM
- Destination SAP for Database Access server (must be the same as the value on the host VAX)
 - range = 4-252 (multiple of 4)
 - default = 12
 - environment string = DBSAP=12
 - command line switch = /s 12
- Destination SAP for CRISP Access server (must be the same as the value on the host VAX)
 - range = 4-252 (multiple of 4)
 - default = 4
 - environment string = HSSAP=4
 - command line switch = /h 4

Step 5. Set Environment

Valid Selections (cont)

- Auto-link report file name.
 - range = any valid filespec
 - default = LINKRPT.TXT
 - environment string = RPTFILE=LINKRPT.TXT
 - command line switch = /r LINKRPT.TXT

Changing Environment Strings

The following is an example of how to change the CRT number using the environment string.

- C:\CRISP> SET CRTNUM=22

The following is an example of how to change the CRT number using a command line switch.

- C:\CRISP> PCWS /C 22

The following is an example of how to check the environment settings.

- C:\CRISP> SET

Notes
