2. SYSTEM REQUIREMENTS

This chapter outlines the hardware and system requirements for running NoteCards on a Sun Workstation. It also describes the contents of the software release and documentation provided.

Prerequisites

Processor Hardware

NoteCards runs on Sun 3 and Sun 4 Workstations. It runs on both standalone workstations and diskless workstations linked to servers.

NoteCards on the Sun 3 Workstation requires the MC68881 floating point coprocessor chip; all Sun 3 Workstations are currently sold with this chip. On the Sun 4 Workstation, the Weitek 1164/1165 coprocessor is optional.

For adequate performance, we recommend at least a 20 MHz 68020 (Sun 3/60 or 3/260), or a 14 MHz SPARC (Sun 4/110 or 4/260), or a SPARCstation.

Memory

You can expect reasonable interactive performance with 8 megabytes (Mb) or more of RAM. Smaller configurations of diskless workstations have been tested, but performance suffers.

Swap Space

NoteCards requires 45Mb of swap space for its own use. NoteCards reserves this space at startup, but its requirement does not grow.

Disk Space

You need a minimum of 17 Mb of disk file space for loading the software from tape, and an additional 1 Mb of disk file space (on the file system where the installation is taking place) to install and configure the NoteCards image. The 17 Mb of disk space needed for the NoteCards software can be broken down as follows:

NoteCards sysout	7 Mb
Fonts	7 Mb
Byte code emulator	3 Mb

Input/Output Devices

NoteCards gives you access to the Sun's input/output devices, such as display, keyboard, mouse, and file systems. It also provides access to PUP and XNS Ethernet services directly.

Bitmap Display

NoteCards only runs on machines with monochrome displays or with color displays that can be operated in single-bit-per-pixel mode. NoteCards supports both the standard resolution display (1152 x 900) and the high-resolution display (1600 x 1280).

Printers

For hardcopy output, NoteCards allows you to print to a Postscript printer, via NFS, or to a Xerox Interpress or Press printer, via PUP/XNS.

Tape Access

For installation you need a ¼-inch cartridge tape, located locally or on a remote machine.

Operating System Requirements

NoteCards on the Sun 3 workstation requires SunOS operating system versions 3.2, 3.4, 3.5, 4.0, 4.0.3, or 4.1. On the Sun 4 workstation, NoteCards requires SunOS version 4.0, 4.0.3, or 4.1.

Note: Notecards XNS Ethernet code cannot be run simultaneously with SunOS 3.5 Kernal XNS Ethernet code.

Constraints

When NoteCards is running, it takes over the entire display screen. Other window systems such as suntools are unavailable**.**

NoteCards runs its own process scheduler; NoteCards is always running as far as the UNIX scheduler is concerned. For this reason, other heavy computational jobs on the same Sun Workstation will not get as good performance as they would competing with conventional UNIX interactive environments.

Similarly, NoteCards may not have adequate interactive performance if it is competing with other computationally–bound processes on the same Sun Workstation.

For these reasons, we recommend that NoteCards be used on machines that are set up primarily for a single user.

Release Contents

The release distribution contains the following documentation and software.

Documentation

The NoteCards documentation kit contains the following:

- *NoteCards User's Guide*
- *NoteCards Release Notes*
- *A User's Guide to TEdit*
- *A User's Guide to Sketch*

- Sun Type 3 and Type 4 keyboard templates

Software

The software release comes on a ¼-inch tape cartridge. The software release is specific to the Sun architecture (Sun 3 or 4) for which you purchased NoteCards, but contains multiple SunOS versions. This tar tape contains the following directories:

./install.sunos3.mc68020	Contains lde, `ldeether, ldeether.c, ldesingle, ldesingle.o, ldex, ldex.o, makefile, and usersubrs.c` for SunOS 3.x.
/install.sunos4.mc68020	Contains `makefile, lde, lde.o, ldeether, ldeether.c, ldemulti, ldemulti.o, ldesingle, ldesingle.o, ldex, ldex.o, and usersubrs.c` for SunOS 4.0.
./install.sunos4.sparc	Contains `makefile, lde, lde.o, ldeether, ldeether.c, ldemulti, ldemulti.o, ldesingle, ldesingle.o, ldex, ldex.o, and usersubrs.c` for SunOS 4.0.
./install.sunos4.1sparc	Contains `makefile, lde, lde.o, ldeether, ldeether.c, ldemulti, ldemulti.o, ldesingle, ldesingle.o, ldex, ldex.o, and usersubrs.c` for SunOS 4.1.
./sysouts	Contains the sysout, `notecards.sysout`
./fonts	Contains the font directories.
./checksumdir	Contains `ldechecksum`, `checksum`, and `X.sum`, checksum files and `README` file.
./ncfiles	Contains `DEMO.NOTEFILE` and `NC-DOCUMENTATION.NOTEFILE`.
./patches	Contains various post-release patches to the Notecards system.

Table 2-1 shows the organization of the font directories, as well as the descriptions and contents of the directories.

Table 2-1. Font Directories

Directory Name	Description	Font Families	Font Types
./fonts/display/presentation ./fonts/interpress/presentation	All presentation fonts for display and user interface applications	Helvetica Gacha Times Roman	Sans serif Monospace screen font in 8, 10, 12 MRR Serif
./fonts/display/publishing ./fonts/interpress/publishing	All publishing fonts for character sets, foreign characters, and technical alphabets	Classic Modern Terminal	Serif; in all character sets, sizes, faces Sans serif; in all character sets, faces, but with selected sizes Monospaced, in all character sets, faces, but with selected sizes
./fonts/display/printwheel ./fonts/interpress/printwheel	All printwheel fonts for word processing applications	BoldPS LetterGothic Titan	Proportional serif Monospaced sans serif Monospaced serif
./fonts/display/JIS1 ./fonts/interpress/JIS1	Japanese Kanji fonts, character set 1	Classic	Point sizes 8 through 24
./fonts/display/JIS2 ./fonts/interpress/JIS2	Japanese Kanji fonts, character set 2	Classic	Point sizes 8 through 24
./fonts/display/chinese ./fonts/interpress/chinese	Chinese character fonts	Classic Modern	Point sizes 12 and 24 12 point
./fonts/display/miscellaneous ./fonts/interpress/miscellaneous	Miscellaneous fonts for nonstandard and rare applications	ClassicThin Hippo Logo Math OldEnglish Symbol Tonto	Brackets and parentheses in point sizes 16, 20, 26, and 30 Greek Xerox logo Math symbols Point sizes 10 and 18 Math symbols Thick monospaced, 14 point MRR
./fonts/postscript	All the postscript fonts		
./fonts/press	All metric information for Press printers.		

If you do not use some of these files, you may choose to delete them after installation. Alternately, you might selectively tar off only those files/directories of interest (see your UNIX documentation). For example, most sites might not use Chinese fonts, or

InterPress/Press printers, so the directories `./display/chinese`, `./interpress`, and `./press` would be candidates for deletion.

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