2.   SYSTEM REQUIREMENTS

6

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.
2

Prerequisites

1

Processor Hardware

1

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 20MHz 68020 (Sun 3/60 or 3/260), or a 14MHz SPARC (Sun 4/110 or 4/260).

Memory

1

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

Swap Space

1

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

Disk Space

1

You need a minimum of 16 megabytes of disk file space for loading the software from tape, and an additional 1 megabyte of disk file space (on the file system where the installation is taking place) to install and configure the NoteCards image.   The 16 megabytes of disk space needed for the NoteCards software can be broken down as follows:

```
NoteCards sysout        7 Mb
Fonts    7 Mb
Byte code emulator     2 Mb
```

Input/Output Devices

1

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

1

NoteCards only runs on machines with either monochrome displays or 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

1

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

1

For installation you need a 1/4-inch cartridge tape, located locally or on a remote machine.

Operating System Requirements

1

NoteCards on the Sun 3 workstation requires SunOS operating system versions 3.2, 3.4, 3.5, or 4.0.   On the Sun 4 workstation, NoteCards requires SunOS version 4.0.
Note: NoteCards XNS Ethernet code cannot be run simultaneously with SunOS 3.5 Kernel XNS Ethernet code.

2

Constraints
1

Resource Constraints
1

When NoteCards is running, it takes over the entire display screen. Other window systems such as suntools are unavailable.
Shared Sun Workstations
1

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 compute-bound processes.
For these reasons, we recommend that NoteCards be used on machines that are set up primarily for a single user.
2

Release Contents
1

The release distribution contains the following documentation and software.
Documentation
1

The NoteCards documentation kit contains
        Envos 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
1

          The software release comes on a 1/4-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 makefile, lde.o, ldeether.c, lde, ldeether, usersubrs.c for SunOS 3.x.
        ./install.sunos4.mc68020   Contains makefile, lde.o, ldeether.c, lde, ldeether, usersubrs.c for SunOS 4.x.
        ./install.sunos4.sparc Contains makefile, lde.o, ldeether.c, lde, ldeether, usersubrs.c for SunOS 4.x.
        ./sysouts   Contains the sysout, notecards.sysout
        ./lisp Contains demo.NOTEFILE, the example notefile, init.NoteCards, the standard NoteCards system initialization file, and various post-release patches to the NoteCards system.
        ./fonts Contains the font directories.
        ./checksumdir Contains ldechecksum, checksum, and X.sum, checksum files and README file.
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 techni- cal 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	Japanese Kanji fonts,	Classic	point sizes 8 through 24

```
./fonts/interpress/JIS2        character set 2

./fonts/display/chinese     Chinese character    Classic point sizes 12 and 24
./fonts/interpress/chinese     fonts   Modern 12 point

./fonts/display/miscellaneous Miscellaneous fonts  ClassicThin    brackets and parentheses
./fonts/interpress/miscellaneous     for nonstandard and         in 16, 20, 26, 30 points
                rare applications     Hippo  Greek
                      Logo    Xerox logo
                      Math    math symbols
                      OldEnglish    point sizes 10 and 18

                      Symbol  math symbols
                      Tonto   thick monospaced, 14 point
                            MRR
./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.
```

[This page intentionally left blank]

```
    Ä(LIST ((PAGE NIL (PAPERSIZE Letter FOLIOINFO (ARABIC "2-" "") STARTINGPAGE# 1) (0 0 612 792)
((FOLIO NIL (PARALOOKS (QUAD RIGHT) CHARLOOKS (SUPERSCRIPT 0 INVISIBLE OFF SELECTPOINT OFF
PROTECTED OFF SIZE 10 FAMILY MODERN OVERLINE OFF STRIKEOUT OFF UNDERLINE OFF EXPANSION REGULAR
SLOPE REGULAR WEIGHT MEDIUM INVERTED OFF USERINFO NIL STYLE NIL) FORMATINFO (ARABIC "2-" ""))
(270 15 288 36) NIL) (HEADING NIL (HEADINGTYPE FOOTINGR) (54 27 558 36) NIL) (TEXT NIL NIL (54 54
504 723) NIL))) (PAGE NIL (PAPERSIZE Letter FOLIOINFO (ARABIC "2-" "")) (0 0 612 792) ((FOLIO NIL
(PARALOOKS (QUAD LEFT) CHARLOOKS (SUPERSCRIPT 0 INVISIBLE OFF SELECTPOINT OFF PROTECTED OFF SIZE
10 FAMILY MODERN OVERLINE OFF STRIKEOUT OFF UNDERLINE OFF EXPANSION REGULAR SLOPE REGULAR WEIGHT
MEDIUM INVERTED OFF USERINFO NIL STYLE NIL) FORMATINFO (ARABIC "2-" "")) (54 15 288 36) NIL)
(HEADING NIL (HEADINGTYPE FOOTINGV) (54 27 558 36) NIL) (HEADING NIL (HEADINGTYPE VERSOHEAD) (54
762 558 36) NIL) (TEXT NIL NIL (54 54 504 684) NIL))) (PAGE NIL (PAPERSIZE Letter FOLIOINFO
(ARABIC "2-" "")) (0 0 612 792) ((FOLIO NIL (PARALOOKS (QUAD RIGHT) CHARLOOKS (SUPERSCRIPT 0
INVISIBLE OFF SELECTPOINT OFF PROTECTED OFF SIZE 10 FAMILY MODERN OVERLINE OFF STRIKEOUT OFF
UNDERLINE OFF EXPANSION REGULAR SLOPE REGULAR WEIGHT MEDIUM INVERTED OFF USERINFO NIL STYLE NIL)
FORMATINFO (ARABIC "2-" "")) (270 15 288 36) NIL) (HEADING NIL (HEADINGTYPE FOOTINGR) (54 27 558
36) NIL) (HEADING NIL (HEADINGTYPE RECTOHEAD) (54 762 558 36) NIL) (TEXT NIL NIL (54 54 504 684)
NIL)))))
```

4

Â Á É Â è Å Â Ä $^5/_8$ Å Â Ä } Å Â — ` ` Â Ù Â A ÈHRULE.GETF

Â   Á   À`    Â    ±    Å    Â —   È   `   Â Ù   Â Á ÈHRULE.GETFNÁ Ò ĀMODERN

Â   Á   `   Â   î   Å   Á   `   Â — È   `   Â Ù   Â Á ÈHRULE.GETFNÁ Ò ÃMODERN

Â Á ` Â ÁW Å Â Å Ü Å Â Ó Ï Å Â Ó Ÿ Å Á ` Â — Õ `

` Â Ù Â Á ÈHRULE.GETFNÁ Ò ĀMODERN

Â Á ` Â
\ Å Á Ã Â — ` Â Ù Â Á ÈHRULE.GETFNÁ Õ ÃMODERN í Â Á ` Â
¥ Å Â Ï g Å Á É Â Ü Â Á ÈHRULE.GETFNÁ Ò ÃMODERN Ï Â Á É Â Ñ