

APPENDIX E. CHECKSUM CONTROL

If you encounter inexplicable problems shortly after you install NoteCards, they may be due to files being corrupted — the release tape may have been damaged, errors may have occurred while the tape was being read, etc. If you have unexplained problems, we recommend that you verify the checksums of your installed files.

The script generates checksum files named *filename*.check and compares them to the released *filename*.sum residing in the /checksumdir subdirectory.

The checksum script reports inconsistent files, the correct checksum values for the files, and an error message. The checksum of individual files can be generated with the UNIX command `sum filename`.

Commands

`ldechecksum [-cg] [ncdir [dir | dirgroup]]` (Command)

`-c` Generates checksums for your installed files and compares them with correct values. This is the default action.

`-g` Generates checksums for the files specified.

ncdir Name of the NoteCards installation directory. Usually it is /usr/local/lde.

dir Any specific directory residing under ncdir. Only relative pathnames with respect to ncdir are accepted.

dirgroup The directory group. Valid directory groups are listed below.

`system` includes lisp, sysouts, install.sunos3.mc68020, install.sunos4.mc68020, install.sunos4.sparc

`fonts` includes the display, InterPress, Press and PostScript directories

`all` includes all of the above

Output

As it begins checking each directory, the script prints a message in the following form:

Checking directory: /usr/local/lde/subdir

Error and warning messages may be in one of these two forms:

```
< E > 36610 6973 NoteCards.sysout
```

Indicates that file `NoteCards.sysout` is erroneous or does not reside in the directory. The correct checksum of 36610, together with the size (6973 Kbytes) of the file are shown.

```
< W > /usr/local/lde/fonts/display/chinese:  
Directory not installed
```

Indicates that file Chinese fonts were not installed or were removed after NoteCards was installed.

Examples

```
prompt% ldechecksum /usr/local/lde
```

All files in the installed NoteCards directories in /usr/local/lde are checked.

```
prompt% ldechecksum /usr/local/somedir/lde system
```

This example checks all files in:

```
/usr/local/somedir/lde/install.sunos3.mc68020  
/usr/local/somedir/lde/install.sunos4.mc68020  
/usr/local/somedir/lde/install.sunos4.sparc  
/usr/local/somedir/lde/sysouts  
/usr/local/somedir/lde/lisp
```

```
prompt% cd/usr/local/lde
```

```
prompt% ldechecksum -c . fonts/display
```

This example checks only the display font directories. The period (.) is used because you are positioned under the current NoteCards installation directory.