

Miscellaneous Information [7]

The following sections describe the following miscellaneous information for the UNICOS MLS feature:

- The `cron(8)` command
- The `su(1)` command
- Tape security
- Data migration security
- Cray/REELlibrarian security

7.1 The `cron` command

The UNICOS system allows the daemon to initiate jobs on your behalf with the resultant processes executing with your current security attributes. Also, you do not have to use the `qsub(1)` command to have your job run with your current security attributes.

In Example 34, Jack wants to run a program called `util`. To have `util` execute with the `train` compartment, Jack changes his `crontab` file to have NQS execute `util`.

Example 34: Example of `cron` command using `qsub`

Before:

```
$ crontab -l
0 3 * * 1-5 /usr/jack/util /f/data
```

After:

```
$ crontab -l
0 3 * * 1-5 qsub -C train /usr/jack/script.util
$ cat script.util
/usr/jack/util /f/data
```

Example 35, page 94, shows how to accomplish what was shown in Example 34, page 93, without using NQS.

Example 35: Example of cron command without using qsub

```
$ setucmp train

$ crontab
0 3 * * 1-5 /usr/jack/util /f/data
$ [CONTROL-D]
```

7.2 Using the su command

The su(1) command allows you to change your user ID to that of another user, but allows your security attributes to remain the same.

All attempts to use the su command are logged in the su log. You are limited to two failed su attempts per minute. A caution is issued after the second failure, and you are logged off and your login is disabled after the third failure in any minute.

In addition, all successful su attempts result in a setuid(2) system call entry in the su log. Your security administrator can audit this log to determine who has been executing setuid and which users have excessive su failures.

7.3 Tape security

See the *Tape Subsystem User's Guide*, Cray Research publication SG-2051, for information on how to use tapes in connection with the UNICOS MLS feature.

7.4 Data migration security

See the *Cray Data Migration Facility (DMF) Administrator's Guide*, Cray Research publication SG-2135, for more information on how to use DMF in connection with the UNICOS MLS feature.

7.5 Cray/REELibrarian security

See the *Cray/REELibrarian (CRL) User's Guide*, Cray Research publication SG-2126, for more information on how to use CRL in connection with the UNICOS MLS feature.

