
Overview:

This is a patch release to be installed on top of CMSS 6.1, on Sun and Vax front ends.

The software repairs in this release are described in the README file included on the tape. For more detail regarding specific bugs fixed, contact Thinking Machines Customer Support at (617)234-4000, or csg@think.com.

Disk Space Requirements:

To install this patch release, you need to extract the contents of the tape into a directory on the front end, from which the software will be moved into the appropriate locations. During the installation you will need the following amount of extra disk space:

Sun front end - 69 MB
Vax front end - 52 MB

After the installation is completed, you can remove the contents of the directory thus reclaiming most of the extra disk space, assuming you did not install any components of the base system via the "symlink" option.

The installation script gives you the option of saving the previous (6.1) versions of the libraries and executables in the CM runtime system. If you choose to do so, you will need disk space in *addition* to the disk space mentioned above.

We also strongly recommend that you disk-save your lisp-paris and/or starlisp band (see step 5, below). You will need about 45 MB to disk-save a new starlisp band; about 33 MB for the lisp-paris band.

INSTALLATION INSTRUCTIONS

Please read the following instructions carefully, prior to attempting the installation.

If you have any questions or problems, contact Thinking Machines Customer Support at (617)234-4000, or csg@think.com.

1. Become root.

2. Create a directory, cd into it and extract the software from the patch release tape.

```
# tar xvp /dev/tapedevice
```

If you are reading the tape from a tape drive on a remote host, use the following command instead,

```
# rsh tapehost dd if=/dev/tapedevice ibs=bs | tar xBvfp -
```

where bs = 20b for 9 track tapes, 200b for cartridge tapes. (It is necessary for "root" to have remote execution privileges on the tape host in order to do this, i.e. the name of the front end should be in the /.rhosts file on the tape host.)

The installation directory will now contain the following files and subdirectories,

```
6.1.1-installation-instructions - this document.
install-rts-patch*             - installation script.
README                         - description of bug fixes.
cm-runtime-6104/               - runtime system patches.
cm-optional/                   - optional lisp components
cm-required/                   - required lisp components
```

See Appendix A for a complete list of the tape contents.

3. Install the runtime system patches, by running the script install-rts-patch,

```
# ./install-rts-patch
```

This script will copy the contents of the patched CM runtime system (the cm-runtime-6104 directory listed above, in particular the lib.{sun4,vax}, bin.{sun4,vax}, etc.{sun4,vax}, and microcode subdirectories), into the 6.1 cm-runtime-6104 hierarchy on this front end.

It will ask if you want to save the previous (6.1) versions of the libraries and commands.

```
Back up old versions of executables and libraries? (yes or no)
```

If you respond "yes", you will need additional disk space approximately equal to the size of the patch release above. The script will rename the 6.1 libraries, user executables, system executables, microcode files, header files, and NQS executables with a filename extension containing the current date; then it will copy the 6.1.1 patch release software into the appropriate locations or make the appropriate symlinks.

If you respond "no", the script will copy the 6.1.1 libraries, user executables, system executables, and microcode files, header files, and NQS executables into the appropriate subdirectories of the 6.1 cm-runtime-6104 hierarchy on this front end, replacing the 6.1 versions.

The install-rts-patch script does NOT install the kernel device driver or lisp patches; that must be done by hand, as described below.

```
***** IMPORTANT NOTE *****
```

```
*
* The install-rts-patch script will attempt to install the files on your
* system in the same way you installed the 6.1 files (i.e. via copy or
* symlink). If you installed any of the 6.1 components via symlink, it will
* assume you want the patch files installed via symlink and are going to keep
* the patch release area around. It will not make backup files of the
* symlinks, but will remove them and install new symlinks pointing to the
* location you unbundled the patch release.
*
```

```
*
* The exceptions to this are components you weren't offered the option of
* linking: header files, microcode, and man pages. These files will be
* backed up if you chose the backup option. Therefore, do not remove the
* patch release area if you installed any of the components from 6.1 via the
*
```

```
* link method! You will remove part of the release! If you installed parts *
* of the release via symlinks, and part with actual files, you can safely *
* remove subdirectories in the patch release directory that weren't installed *
* via the symlink option. *
* *
*****
```

See Appendix B for a sample run of install-rtspatch.

4. Install the kernel patches.

On the Sun:

Rename the files /sys/sun4/cm.c and the associated header files in the same directory if you wish to save the previous versions.

Copy cm.c and the associated header files from the 6.1.1 patch release directory cm-runtime-6104/sys, into /sys/sun4/.

Rebuild the kernel as usual,

```
# cd /sys/sun4/conf
# config MACHINENAME
# cd ../MACHINENAME
# make depend
# make vmunix
```

then install it,

```
# cd /
# mv vmunix vmunix.old
# mv /sys/sun4/MACHINENAME/vmunix /.
```

then reboot the system at the next available opportunity.

If you are installing the release on a Sun 4/600MP series machine, install the 6.1 final tape, answering "no" to the "install driver" question. Install the 6.1.1 patch tape, then cd into the patch release subdirectory "./cm-runtime-6104/install" and type

```
# ./install-sun4-driver <patch-directory>/cm-runtime-6104
```

and answer the questions following the instructions for installing the driver from the 6.1 tape.

On the Vax:

Rename the files /sys/vaxcm/cm.c and the associated header files in the same directory if you wish to save the previous versions.

Copy cm.c and the associated header files from the 6.1.1 patch release directory cm-runtime-6104/sys, into /sys/vaxcm/.

Rebuild the kernel as usual,

```
# cd /sys/conf
# config MACHINENAME
# cd ../MACHINENAME
# make depend
# make vmunix
```

then install it,

142298 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libckpt.a
235728 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libcmfe.a
2735736 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libcmfs-6104.a
2676286 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libcmfs-6104-pg.a
6325296 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libparis2-6104.a
6743112 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libparis2-6104-pg.a
1849900 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libparisfort-6104-pg.a
70248 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libtoolkit.a
76692 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libtoolkit-pg.a
142302 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libckpt-pg.a
247120 Feb 21 14:09 ./cm-runtime-6104/lib.sun4/libcmfe-pg.a
9879240 Feb 25 11:52 ./cm-runtime-6104/lib.sun4/libparis-pg.a
245760 Feb 5 17:02 ./cm-runtime-6104/etc.sun4/cmsa
221184 Feb 5 17:02 ./cm-runtime-6104/etc.sun4/cm-acctd
196608 Feb 5 17:02 ./cm-runtime-6104/etc.sun4/cmacl
139264 Feb 5 17:03 ./cm-runtime-6104/etc.sun4/pracct
253952 Feb 5 17:03 ./cm-runtime-6104/etc.sun4/cmrenice
1015808 Feb 5 17:03 ./cm-runtime-6104/etc.sun4/cmverify
245760 Feb 5 17:03 ./cm-runtime-6104/etc.sun4/cmts-admin
630784 Feb 5 17:03 ./cm-runtime-6104/etc.sun4/coldboot-paris
172032 Feb 5 17:03 ./cm-runtime-6104/etc.sun4/cmcountdown
237568 Feb 5 17:03 ./cm-runtime-6104/etc.sun4/cmts-shutdown
245760 Feb 5 17:09 ./cm-runtime-6104/etc.sun4/cm-logger
245760 Feb 5 17:08 ./cm-runtime-6104/etc.sun4/cm-update-config
2801664 Feb 24 15:22 ./cm-runtime-6104/etc.sun4/ts-daemon
81920 Feb 7 14:13 ./cm-runtime-6104/etc.sun4/vbutil
2883584 Feb 7 17:09 ./cm-runtime-6104/etc.sun4/dvtest2
2260992 Feb 7 17:10 ./cm-runtime-6104/etc.sun4/dv_disk_util
1187840 Feb 7 17:11 ./cm-runtime-6104/etc.sun4/fsserver
1024000 Feb 7 17:10 ./cm-runtime-6104/etc.sun4/dv_util_vmeio
10793 Feb 21 15:07 ./cm-runtime-6104/etc.sun4/cmsa.awk
8704 Feb 25 15:33 ./cm-runtime-6104/etc.sun4/newcmlog
19012 Jan 21 17:53 ./cm-runtime-6104/microcode-cm2/cmssl.ilb
30072 Jan 21 17:53 ./cm-runtime-6104/microcode-cm2/fpu-utility-imps.ilb
310 Jan 21 17:53 ./cm-runtime-6104/microcode-cm2/leader-spread.ilb
177112 Jan 21 17:53 ./cm-runtime-6104/microcode-cm2/math-library.ilb
48191 Jan 21 17:53 ./cm-runtime-6104/microcode-cm2/paris-communication.ilb
676062 Jan 21 17:53 ./cm-runtime-6104/microcode-cm2/paris-float-arithmetic.ilb
7343 Jan 21 17:53 ./cm-runtime-6104/microcode-cm2/shuffle.ilb
219387 Jan 21 17:53 ./cm-runtime-6104/microcode-cm2/twuffle.ilb
486 Jan 21 17:53 ./cm-runtime-6104/microcode-cm2/utils.ilb
4052 Jan 21 17:54 ./cm-runtime-6104/microcode-cm2/trap-table.traps
308 Jan 21 17:54 ./cm-runtime-6104/microcode-cm2/cmss-imp-library-list
1788796 Jan 21 17:54 ./cm-runtime-6104/microcode-cm2/paris-ucode.cs
473522 Jan 21 17:54 ./cm-runtime-6104/microcode-cm2/paris-ucode.mis
442495 Jan 21 17:55 ./cm-runtime-6104/microcode-cm2/paris-64-ucode.s
19012 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/cmssl.ilb
30072 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/fpu-utility-imps.ilb
310 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/leader-spread.ilb
177112 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/math-library.ilb
48191 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/paris-communication.ilb
676062 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/paris-float-arithmetic.ilb
7343 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/shuffle.ilb
219387 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/twuffle.ilb
486 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/utils.ilb
4052 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/trap-table.traps
308 Jan 21 17:55 ./cm-runtime-6104/microcode-cm200/cmss-imp-library-list
1785820 Jan 21 17:56 ./cm-runtime-6104/microcode-cm200/paris-ucode.cs
473662 Jan 21 17:56 ./cm-runtime-6104/microcode-cm200/paris-ucode.mis
442667 Jan 21 17:56 ./cm-runtime-6104/microcode-cm200/paris-64-ucode.s
194754 Jan 31 15:37 ./cm-runtime-6104/sys/cm.c
1217 Jan 31 15:37 ./cm-runtime-6104/sys/cm_acct.c
11703 Jan 31 15:38 ./cm-runtime-6104/sys/cmreg.h
7574 Jan 31 15:38 ./cm-runtime-6104/sys/cmsoft.h
10265 Jan 31 15:38 ./cm-runtime-6104/sys/cmacct.h
15291 Jan 31 15:38 ./cm-runtime-6104/sys/cmioctl.h

5060	Jan	31	15:38	./cm-runtime-6104/sys/nexus-code.h
6928	Jan	31	15:38	./cm-runtime-6104/sys/attach.h
139264	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/logdaemon
245760	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/lpserver
303104	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/netclient
434176	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/netdaemon
270336	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/netserver
884736	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/nqsdaemon
180224	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/nqsmkdirs
188416	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/nqsmktrans
319488	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/pipeclient
32768	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/shlexefai
17	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/sitename
101783	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/qmgr.hlp
7610	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/install-nqs
5007	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/build-nqs-dbase
122	Feb	6	12:33	./cm-runtime-6104/nqslib.sun4/qmkdir
196608	Feb	6	12:33	./cm-runtime-6104/nqsbin.sun4/nmapmgr
262144	Feb	6	12:33	./cm-runtime-6104/nqsbin.sun4/qdel
237568	Feb	6	12:33	./cm-runtime-6104/nqsbin.sun4/qdev
204800	Feb	6	12:33	./cm-runtime-6104/nqsbin.sun4/qlimit
606208	Feb	6	12:34	./cm-runtime-6104/nqsbin.sun4/qmgr
303104	Feb	6	12:34	./cm-runtime-6104/nqsbin.sun4/qpr
368640	Feb	6	12:34	./cm-runtime-6104/nqsbin.sun4/qstat
360448	Feb	6	12:34	./cm-runtime-6104/nqsbin.sun4/qsub
33	Feb	6	12:34	./cm-runtime-6104/nqsbin.sun4/shownqs
113	Feb	6	12:34	./cm-runtime-6104/nqsbin.sun4/startnqs
17	Feb	6	12:34	./cm-runtime-6104/nqsbin.sun4/stopnqs
1004544	Feb	21	11:20	./cm-runtime-6104/microvax/fserver
1008640	Feb	21	11:24	./cm-runtime-6104/microvax/unfsd
716800	Feb	21	11:24	./cm-runtime-6104/microvax/unfsmntd
2421	Feb	21	11:24	./cm-runtime-6104/microvax/unfsd_exports.5
1653	Feb	21	11:24	./cm-runtime-6104/microvax/unfsd.8
164	Feb	21	11:33	./cm-runtime-6104/microvax/exports.example
1554	Feb	21	14:19	./cm-runtime-6104/microvax/README
1040	Jan	17	14:36	./cm-required/patch/paris/f6104/def-file-set.lisp
1803	Nov	24	01:05	./cm-required/patch/paris/f6104/patch-tracker.sbin4
1291	Nov	23	13:24	./cm-required/patch/paris/f6104/patch-tracker.lisp
5691	Nov	4	14:11	./cm-required/patch/paris/f6104/twuffle-patch.lisp
4795	Nov	4	14:17	./cm-required/patch/paris/f6104/twuffle-patch.sbin4
1374	Nov	4	14:20	./cm-required/patch/paris/f6104/ts-ucode-patch.sbin4
2135	Nov	5	10:51	./cm-required/patch/paris/f6104/cmioc-diag-patch.lisp
2406	Nov	5	12:23	./cm-required/patch/paris/f6104/cmioc-diag-patch.sbin4
3291	Nov	22	11:29	./cm-required/patch/paris/f6104/fb-ucode-patch.lisp
3765	Nov	7	13:59	./cm-required/patch/paris/f6104/normalize-patch.lisp
10703	Nov	22	11:30	./cm-required/patch/paris/f6104/send-to-queue-patch.lisp
3943	Nov	7	14:10	./cm-required/patch/paris/f6104/normalize-patch.sbin4
4325	Nov	22	11:30	./cm-required/patch/paris/f6104/send-to-queue-patch.sbin4
1995	Nov	19	13:42	./cm-required/patch/paris/f6104/cvpm-patch.lisp
7015	Dec	4	11:02	./cm-required/patch/paris/f6104/nexus-clock-patch.lisp
2598	Nov	4	14:19	./cm-required/patch/paris/f6104/ts-ucode-patch.lisp
14145	Nov	22	11:28	./cm-required/patch/paris/f6104/sprint-delivery-setup-patch.li
7434	Nov	4	14:18	./cm-required/patch/paris/f6104/twuffle-patch-2.sbin4
6833	Dec	4	11:05	./cm-required/patch/paris/f6104/nexus-clock-patch.sbin4
4583	Nov	22	11:29	./cm-required/patch/paris/f6104/sprint-delivery-setup-patch.sb
1343	Nov	4	14:14	./cm-required/patch/paris/f6104/cm200-warning-patch.lisp
1923	Nov	4	14:18	./cm-required/patch/paris/f6104/cm200-warning-patch.sbin4
809	Nov	26	14:12	./cm-required/patch/paris/f6104/relink-paris.sbin4
3021	Nov	19	17:35	./cm-required/patch/paris/f6104/cvpm-patch.sbin4
7323	Nov	26	15:49	./cm-required/patch/paris/f6104/sram-maddr-patch.lisp
286	Nov	23	13:26	./cm-required/patch/paris/f6104/relink-paris.lisp
11535	Nov	26	15:50	./cm-required/patch/paris/f6104/sram-maddr-patch.sbin4
5198	Nov	22	11:30	./cm-required/patch/paris/f6104/fb-ucode-patch.sbin4
10380	Nov	4	14:13	./cm-required/patch/paris/f6104/twuffle-patch-2.lisp
47190	Nov	26	15:48	./cm-required/patch/paris/f6104/ucode-timing-patch.lisp
12780	Dec	5	16:00	./cm-required/patch/paris/f6104/mfg-diag-patches.lisp

3541	Jan	15	14:39	./cm-required/patch/paris/f6104/rank-patch.sbin4
43956	Nov	26	15:50	./cm-required/patch/paris/f6104/ucode-timing-patch.sbin4
14807	Dec	6	01:05	./cm-required/patch/paris/f6104/mfg-diag-patches.sbin4
3823	Jan	15	14:38	./cm-required/patch/paris/f6104/rank-patch.lisp
2143	Jan	17	14:36	./cm-required/patch/paris/f6104/send-to-shared-queue-patch.lis
3028	Jan	17	16:06	./cm-required/patch/paris/f6104/send-to-shared-queue-patch.sbi
359	Jan	10	02:10	./cm-required/patch/paris/f6105/def-file-set.lisp
1291	Nov	23	13:24	./cm-required/patch/paris/f6105/patch-tracker.lisp
286	Nov	23	13:26	./cm-required/patch/paris/f6105/relink-paris.lisp
452	Jan	13	16:53	./cm-required/patch/starlisp/f6101/def-file-set.lisp
1822	Sep	29	21:14	./cm-required/patch/starlisp/f6101/patch-tracker.sbin4
913	Sep	30	16:27	./cm-required/patch/starlisp/f6101/sideways-array.lisp
1298	Oct	22	1990	./cm-required/patch/starlisp/f6101/patch-tracker.lisp
2229	Sep	30	16:30	./cm-required/patch/starlisp/f6101/sideways-array.sbin4
5197	Oct	11	12:17	./cm-required/patch/starlisp/f6101/equal-patch.sbin4
2013	Oct	4	16:39	./cm-required/patch/starlisp/f6101/cmfs-errno.sbin4
476	Oct	3	18:13	./cm-required/patch/starlisp/f6101/cmfs-ioctl.lisp
3229	Oct	3	18:15	./cm-required/patch/starlisp/f6101/cmfs-ioctl.sbin4
2402	Oct	16	18:42	./cm-required/patch/starlisp/f6101/v-is-zero-patch.sbin4
1451	Oct	4	16:39	./cm-required/patch/starlisp/f6101/cmfs-errno.lisp
1482	Oct	16	18:35	./cm-required/patch/starlisp/f6101/v-is-zero-patch.lisp
3302	Oct	11	12:15	./cm-required/patch/starlisp/f6101/equal-patch.lisp
3418	Oct	30	15:26	./cm-required/patch/starlisp/f6101/vector-promotion-patch.lisp
4397	Oct	30	15:28	./cm-required/patch/starlisp/f6101/vector-promotion-patch.sbin
724	Dec	18	17:59	./cm-required/patch/starlisp/f6101/realpart-imagpart-ftype-pat
2008	Dec	18	18:28	./cm-required/patch/starlisp/f6101/realpart-imagpart-ftype-pat
18553	Jan	13	17:51	./cm-required/patch/starlisp/f6101/node-reference-with-wrapper
17767	Jan	13	20:15	./cm-required/patch/starlisp/f6101/node-reference-with-wrapper
338	Feb	18	12:29	./cm-required/patch/c-paris/f6100/def-file-set.lisp
2161	Feb	18	12:25	./cm-required/patch/c-paris/f6100/transpose-patch.lisp
4181	Feb	18	12:30	./cm-required/patch/c-paris/f6100/transpose-patch.sbin4
10452	Jan	31	16:06	./cm-required/lcmw/6-1/database-release.lisp
58542	Jan	31	16:06	./cm-required/lcmw/6-1/saved-selections-release.lisp
193	Jan	31	16:13	./cm-required/dfs/site/uc-assembler-beta-f6101.dfs
175	Jan	31	16:14	./cm-required/dfs/site/mop-beta-f5300.dfs
173	Jan	31	16:14	./cm-required/dfs/site/min-mic-f6102.dfs
3374	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/bitblt-example.lisp
3787	Jun	19	1991	./cm-optional/starlisp/interpreter/f6101/canon-matrix-multiply
7333	Apr	8	1991	./cm-optional/starlisp/interpreter/f6101/cellular-automata-exa
7076	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/combinations-example.
6964	Jun	25	1991	./cm-optional/starlisp/interpreter/f6101/determinants-examples
51860	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/dictionary-examples.l
5338	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/example-batch-job.lis
526	Jan	23	00:27	./cm-optional/starlisp/interpreter/f6101/examples-def-file-set
2444	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/primes-example.lisp
2205	Apr	5	1991	./cm-optional/starlisp/interpreter/f6101/run-examples.lisp
10346	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/text-processing-examp
3335	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/timing-example.lisp
5883	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/very-long-addition-ex
13025	Apr	17	1991	./cm-optional/starlisp/interpreter/f6101/starlisp-sampler.lisp
981	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/def-file-set.lisp
18042	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/assem.sbin4
1473	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/calling.sbin4
32548	Jul	17	1991	./cm-optional/uc-assembler/beta/f6101/cm-asm.sbin4
5083	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/compute-length-of-cycle.
5080	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/defucode.sbin4
4948	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/entrypoints.sbin4
562	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/full-assembler-init.sbin
12525	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/gmacs-hacks.sbin4
8545	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/lucid-printer.sbin4
5291	Jul	17	1991	./cm-optional/uc-assembler/beta/f6101/rev-4-macros.sbin4
49320	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/rev-4-uwdefs-ram.sbin4
5613	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/uc-macroexpand.sbin4
18194	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/uwdef.sbin4
410	Feb	3	1990	./cm-optional/mop/beta/f5300/def-file-set.lisp
12532	Mar	19	1991	./cm-optional/mop/beta/f5300/beta-instr.sbin4


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10771 Mar 19 1991 ./cm-optional/mop/beta/f5300/combined-sprint-beta-macros.sbin4
 1521 Mar 19 1991 ./cm-optional/mop/beta/f5300/macro-constructors.sbin4
32290 Mar 19 1991 ./cm-optional/mop/beta/f5300/mop-macros.sbin4
32057 Mar 19 1991 ./cm-optional/mop/beta/f5300/mop.sbin4
53621 Mar 19 1991 ./cm-optional/mop/beta/f5300/pvo.sbin4
 6947 Mar 19 1991 ./cm-optional/mop/beta/f5300/sprint-macros.sbin4
 2470 Mar 19 1991 ./cm-optional/mop/beta/f5300/wassem-macros.sbin4
 3461 Mar 19 1991 ./cm-optional/mop/beta/f5300/wtl3132-macros.sbin4
 3388 Mar 19 1991 ./cm-optional/mop/beta/f5300/wtl3164-macros.sbin4
 389 Jul 30 1991 ./cm-optional/min-mic/f6102/def-file-set.lisp
34182 Jul 30 1991 ./cm-optional/min-mic/f6102/allocation.sbin4
 446 Jul 30 1991 ./cm-optional/min-mic/f6102/flag-ops.sbin4
13905 Jul 30 1991 ./cm-optional/min-mic/f6102/loop-macros.sbin4
55917 Jul 30 1991 ./cm-optional/min-mic/f6102/macros.sbin4
20606 Jul 30 1991 ./cm-optional/min-mic/f6102/min-mic-instr-macros.sbin4
47427 Jul 30 1991 ./cm-optional/min-mic/f6102/min-mic-macros.sbin4
26961 Jul 30 1991 ./cm-optional/min-mic/f6102/min-mic.sbin4
 8079 Jul 30 1991 ./cm-optional/min-mic/f6102/scratch-ram-uc.sbin4
 7135 Jan 31 15:56 ./cm-optional/installation/6-1/file-set-translations.lisp
28633 Feb 24 15:03 ./install-rtss-patch
31952 Feb 24 15:15 ./6.1.1-installation-instructions

```

Vax:

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 236 Feb 1 20:45 ./cm-runtime-6104/include/ckpt-fort.h
31021 Feb 1 20:45 ./cm-runtime-6104/include/cmrt.h
 8886 Feb 1 20:45 ./cm-runtime-6104/include/attach-fort.h
 3780 Feb 1 20:45 ./cm-runtime-6104/include/ckpt.h
 2569 Feb 1 20:45 ./cm-runtime-6104/include/cm-errors.h
10265 Feb 1 20:45 ./cm-runtime-6104/include/cmacct.h
15291 Feb 1 20:45 ./cm-runtime-6104/include/cmioctl.h
 7574 Feb 1 20:45 ./cm-runtime-6104/include/cmsoft.h
 6331 Feb 1 20:45 ./cm-runtime-6104/include/cmtyper.h
20719 Feb 1 20:45 ./cm-runtime-6104/include/impctl.h
13157 Feb 1 20:45 ./cm-runtime-6104/include/paris-internal.h
223684 Feb 1 20:45 ./cm-runtime-6104/include/paris.h
10376 Feb 1 20:45 ./cm-runtime-6104/include/timeshare.h
148480 Feb 5 16:44 ./cm-runtime-6104/etc.vax/cmsa
221184 Feb 25 15:37 ./cm-runtime-6104/etc.vax/cm-acctd
 91136 Feb 5 16:44 ./cm-runtime-6104/etc.vax/cmacl
 41984 Feb 5 16:44 ./cm-runtime-6104/etc.vax/pracct
112640 Feb 5 16:44 ./cm-runtime-6104/etc.vax/cmrenice
733184 Feb 5 16:45 ./cm-runtime-6104/etc.vax/cmverify
111616 Feb 5 16:45 ./cm-runtime-6104/etc.vax/cmts-admin
402432 Feb 5 16:45 ./cm-runtime-6104/etc.vax/coldboot-paris
 78848 Feb 5 16:45 ./cm-runtime-6104/etc.vax/cmcountdown
104448 Feb 5 16:45 ./cm-runtime-6104/etc.vax/cmts-shutdown
162816 Feb 5 16:47 ./cm-runtime-6104/etc.vax/cm-logger
154624 Feb 5 16:52 ./cm-runtime-6104/etc.vax/cm-update-config
2421760 Feb 25 11:05 ./cm-runtime-6104/etc.vax/ts-daemon
2486272 Feb 7 17:05 ./cm-runtime-6104/etc.vax/dvtest2
1713152 Feb 7 17:06 ./cm-runtime-6104/etc.vax/dv_disk_util
1004544 Feb 7 17:07 ./cm-runtime-6104/etc.vax/fsserver
 10793 Feb 21 15:04 ./cm-runtime-6104/etc.vax/cmsa.awk
 21504 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/logdaemon
 94208 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/lpserver
106496 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/netclient
161792 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/netdaemon
 96256 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/netserver
336896 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/nqsdaemon
 71680 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/nqsmkdirs
 72704 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/nqsmktrans
112640 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/pipeclient
 4096 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/shlexefai
 17 Feb 6 12:36 ./cm-runtime-6104/nqslib.vax/sitename

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101783	Feb	6	12:36	./cm-runtime-6104/ngslib.vax/qmgr.hlp
7610	Feb	6	12:36	./cm-runtime-6104/ngslib.vax/install-ngs
5007	Feb	6	12:36	./cm-runtime-6104/ngslib.vax/build-ngs-dbase
122	Feb	6	12:36	./cm-runtime-6104/ngslib.vax/qmkdir
1271208	Feb	19	23:06	./cm-runtime-6104/lib.vax/libparisfort-6104.a
1795960	Feb	20	19:51	./cm-runtime-6104/lib.vax/libcmrts-1.1-CM2-6104.a
1892646	Feb	20	19:51	./cm-runtime-6104/lib.vax/libcmrts-1.1-CM2-6104_p.a
1787884	Feb	20	19:51	./cm-runtime-6104/lib.vax/libcmrts-1.1-CM200-6104.a
1884570	Feb	20	19:51	./cm-runtime-6104/lib.vax/libcmrts-1.1-CM200-6104_p.a
94554	Feb	21	13:54	./cm-runtime-6104/lib.vax/libckpt-pg.a
92088	Feb	21	13:54	./cm-runtime-6104/lib.vax/libckpt.a
2018114	Feb	19	23:06	./cm-runtime-6104/lib.vax/libcmfs-6104.a
1991034	Feb	19	23:06	./cm-runtime-6104/lib.vax/libcmfs-6104-pg.a
5933242	Feb	19	23:06	./cm-runtime-6104/lib.vax/libparis2-6104.a
6253510	Feb	19	23:06	./cm-runtime-6104/lib.vax/libparis2-6104-pg.a
1318320	Feb	19	23:06	./cm-runtime-6104/lib.vax/libparisfort-6104-pg.a
176752	Feb	21	13:54	./cm-runtime-6104/lib.vax/libcmfe-pg.a
168926	Feb	21	13:54	./cm-runtime-6104/lib.vax/libcmfe.a
57438	Feb	21	13:54	./cm-runtime-6104/lib.vax/libtoolkit-pg.a
52968	Feb	21	13:54	./cm-runtime-6104/lib.vax/libtoolkit.a
9346474	Feb	25	11:43	./cm-runtime-6104/lib.vax/libparis-pg.a
308	Feb	1	20:27	./cm-runtime-6104/microcode-cm2/cmss-imp-library-list
19012	Feb	1	20:27	./cm-runtime-6104/microcode-cm2/cmssl.ilb
30072	Feb	1	20:27	./cm-runtime-6104/microcode-cm2/fpu-utility-imps.ilb
310	Feb	1	20:27	./cm-runtime-6104/microcode-cm2/leader-spread.ilb
177112	Feb	1	20:27	./cm-runtime-6104/microcode-cm2/math-library.ilb
442495	Feb	1	20:27	./cm-runtime-6104/microcode-cm2/paris-64-ucode.s
48191	Feb	1	20:27	./cm-runtime-6104/microcode-cm2/paris-communication.ilb
676062	Feb	1	20:28	./cm-runtime-6104/microcode-cm2/paris-float-arithmetic.ilb
1788796	Feb	1	20:28	./cm-runtime-6104/microcode-cm2/paris-ucode.cs
473522	Feb	1	20:29	./cm-runtime-6104/microcode-cm2/paris-ucode.mis
7343	Feb	1	20:29	./cm-runtime-6104/microcode-cm2/shuffle.ilb
4052	Feb	1	20:29	./cm-runtime-6104/microcode-cm2/trap-table.traps
219387	Feb	1	20:29	./cm-runtime-6104/microcode-cm2/twuffle.ilb
486	Feb	1	20:29	./cm-runtime-6104/microcode-cm2/utils.ilb
308	Feb	1	20:30	./cm-runtime-6104/microcode-cm200/cmss-imp-library-list
19012	Feb	1	20:30	./cm-runtime-6104/microcode-cm200/cmssl.ilb
30072	Feb	1	20:30	./cm-runtime-6104/microcode-cm200/fpu-utility-imps.ilb
310	Feb	1	20:30	./cm-runtime-6104/microcode-cm200/leader-spread.ilb
177112	Feb	1	20:30	./cm-runtime-6104/microcode-cm200/math-library.ilb
442667	Feb	1	20:30	./cm-runtime-6104/microcode-cm200/paris-64-ucode.s
48191	Feb	1	20:30	./cm-runtime-6104/microcode-cm200/paris-communication.ilb
676062	Feb	1	20:30	./cm-runtime-6104/microcode-cm200/paris-float-arithmetic.ilb
1785820	Feb	1	20:31	./cm-runtime-6104/microcode-cm200/paris-ucode.cs
473662	Feb	1	20:32	./cm-runtime-6104/microcode-cm200/paris-ucode.mis
7343	Feb	1	20:32	./cm-runtime-6104/microcode-cm200/shuffle.ilb
4052	Feb	1	20:32	./cm-runtime-6104/microcode-cm200/trap-table.traps
219387	Feb	1	20:32	./cm-runtime-6104/microcode-cm200/twuffle.ilb
486	Feb	1	20:32	./cm-runtime-6104/microcode-cm200/utils.ilb
6928	Jan	31	15:38	./cm-runtime-6104/sys/attach.h
194754	Jan	31	15:37	./cm-runtime-6104/sys/cm.c
1217	Jan	31	15:37	./cm-runtime-6104/sys/cm_acct.c
10265	Jan	31	15:38	./cm-runtime-6104/sys/cm̄acct.h
15291	Jan	31	15:38	./cm-runtime-6104/sys/cm̄ioct1.h
11703	Jan	31	15:38	./cm-runtime-6104/sys/cmreg.h
7574	Jan	31	15:38	./cm-runtime-6104/sys/cmsoft.h
5060	Jan	31	15:38	./cm-runtime-6104/sys/nexus-code.h
203776	Feb	5	16:44	./cm-runtime-6104/bin.vax/cmpowerup
99328	Feb	5	16:44	./cm-runtime-6104/bin.vax/cmlist
237568	Feb	5	16:44	./cm-runtime-6104/bin.vax/cmattach
1089536	Feb	7	17:07	./cm-runtime-6104/bin.vax/cmtar
818176	Feb	7	17:08	./cm-runtime-6104/bin.vax/cmcp
769024	Feb	7	17:08	./cm-runtime-6104/bin.vax/cmdd
667648	Feb	7	17:09	./cm-runtime-6104/bin.vax/copyfromdv
792576	Feb	7	17:09	./cm-runtime-6104/bin.vax/copytodv
64512	Feb	6	12:36	./cm-runtime-6104/ngsbin.vax/nmapmgr

91136	Feb	6	12:36	./cm-runtime-6104/nqsbin.vax/qdel
78848	Feb	6	12:36	./cm-runtime-6104/nqsbin.vax/qdev
61440	Feb	6	12:37	./cm-runtime-6104/nqsbin.vax/qlimit
209920	Feb	6	12:37	./cm-runtime-6104/nqsbin.vax/qmgr
110592	Feb	6	12:37	./cm-runtime-6104/nqsbin.vax/qpr
134144	Feb	6	12:37	./cm-runtime-6104/nqsbin.vax/qstat
126976	Feb	6	12:37	./cm-runtime-6104/nqsbin.vax/qsub
33	Feb	6	12:37	./cm-runtime-6104/nqsbin.vax/shownqs
113	Feb	6	12:37	./cm-runtime-6104/nqsbin.vax/startnqs
17	Feb	6	12:37	./cm-runtime-6104/nqsbin.vax/stopnqs
004544	Feb	21	11:17	./cm-runtime-6104/microvax/fserver
1008640	Feb	21	11:19	./cm-runtime-6104/microvax/unfsd
716800	Feb	21	11:20	./cm-runtime-6104/microvax/unfsmntd
2421	Feb	21	11:20	./cm-runtime-6104/microvax/unfsd_exports.5
1653	Feb	21	11:20	./cm-runtime-6104/microvax/unfsd.8
164	Feb	21	11:31	./cm-runtime-6104/microvax/exports.example
1554	Feb	21	14:16	./cm-runtime-6104/microvax/README
14042	Feb	4	18:48	./cm-runtime-6104/man/CMFS/man1/cmdd.1
7696	Feb	3	13:45	./cm-runtime-6104/man/CMFS/man3/CMFS_open.3
9362	Jan	29	14:19	./cm-runtime-6104/man/CMFS/man8/fserver.8
1403	Feb	4	17:32	./cm-runtime-6104/man/CMFS/man8/unfsd.8
889	Feb	4	17:27	./cm-runtime-6104/man/CMFS/man8/ugidd.8
2632	Feb	6	19:59	./cm-runtime-6104/man/CMFS/man5/unfsd_exports.5
4108	Feb	3	22:37	./cm-runtime-6104/man/CMOST/man8/cm-acctd.8
841	Feb	3	14:57	./cm-runtime-6104/man/CMOST/man8/pracct.8
2802	Feb	7	17:07	./cm-runtime-6104/man/CMOST/man8/cmcountdown.8
5348	Feb	7	17:31	./cm-runtime-6104/man/CMOST/man8/cmacl.8
5170	Feb	7	15:17	./cm-runtime-6104/man/CMOST/man8/cmverify.8
130048	Feb	25	15:37	./cm-runtime-6104/etc.sun4
1040	Jan	17	14:36	./cm-required/patch/paris/f6104/def-file-set.lisp
1291	Nov	23	13:24	./cm-required/patch/paris/f6104/patch-tracker.lisp
2338	Nov	25	10:49	./cm-required/patch/paris/f6104/patch-tracker.vbin2
5691	Nov	4	14:11	./cm-required/patch/paris/f6104/twuffle-patch.lisp
5746	Nov	4	14:32	./cm-required/patch/paris/f6104/twuffle-patch.vbin2
1624	Nov	4	14:32	./cm-required/patch/paris/f6104/ts-ucode-patch.vbin2
4846	Nov	22	11:29	./cm-required/patch/paris/f6104/sprint-delivery-setup-patch.vb
2284	Nov	4	14:33	./cm-required/patch/paris/f6104/cm200-warning-patch.vbin2
8834	Nov	4	14:33	./cm-required/patch/paris/f6104/twuffle-patch-2.vbin2
2135	Nov	5	10:51	./cm-required/patch/paris/f6104/cmloc-diag-patch.lisp
5556	Nov	22	11:30	./cm-required/patch/paris/f6104/fb-ucode-patch.vbin2
2892	Nov	5	10:52	./cm-required/patch/paris/f6104/cmloc-diag-patch.vbin2
3291	Nov	22	11:29	./cm-required/patch/paris/f6104/fb-ucode-patch.lisp
3765	Nov	7	13:59	./cm-required/patch/paris/f6104/normalize-patch.lisp
10703	Nov	22	11:30	./cm-required/patch/paris/f6104/send-to-queue-patch.lisp
5047	Nov	14	06:03	./cm-required/patch/paris/f6104/normalize-patch.vbin2
1995	Nov	19	13:42	./cm-required/patch/paris/f6104/cvpm-patch.lisp
7015	Dec	4	11:02	./cm-required/patch/paris/f6104/nexus-clock-patch.lisp
4491	Nov	22	11:30	./cm-required/patch/paris/f6104/send-to-queue-patch.vbin2
2598	Nov	4	14:19	./cm-required/patch/paris/f6104/ts-ucode-patch.lisp
14145	Nov	22	11:28	./cm-required/patch/paris/f6104/sprint-delivery-setup-patch.li
1343	Nov	4	14:14	./cm-required/patch/paris/f6104/cm200-warning-patch.lisp
7323	Nov	26	15:49	./cm-required/patch/paris/f6104/sram-maddr-patch.lisp
1120	Nov	25	10:50	./cm-required/patch/paris/f6104/relink-paris.vbin2
286	Nov	23	13:26	./cm-required/patch/paris/f6104/relink-paris.lisp
10380	Nov	4	14:13	./cm-required/patch/paris/f6104/twuffle-patch-2.lisp
47190	Nov	26	15:48	./cm-required/patch/paris/f6104/ucode-timing-patch.lisp
7244	Dec	19	10:31	./cm-required/patch/paris/f6104/nexus-clock-patch.vbin2
3709	Nov	22	22:02	./cm-required/patch/paris/f6104/cvpm-patch.vbin2
10527	Nov	26	15:50	./cm-required/patch/paris/f6104/sram-maddr-patch.vbin2
12780	Dec	5	16:00	./cm-required/patch/paris/f6104/mfg-diag-patches.lisp
45381	Nov	26	15:51	./cm-required/patch/paris/f6104/ucode-timing-patch.vbin2
15920	Dec	19	10:32	./cm-required/patch/paris/f6104/mfg-diag-patches.vbin2
3823	Jan	15	14:38	./cm-required/patch/paris/f6104/rank-patch.lisp
4256	Jan	16	10:12	./cm-required/patch/paris/f6104/rank-patch.vbin2
2143	Jan	17	14:36	./cm-required/patch/paris/f6104/send-to-shared-queue-patch.lis
452	Jan	13	16:53	./cm-required/patch/starlisp/f6101/def-file-set.lisp

2360	Sep	30	14:21	./cm-required/patch/starlisp/f6101/patch-tracker.vbin2
913	Sep	30	16:27	./cm-required/patch/starlisp/f6101/sideways-array.lisp
1298	Oct	22	1990	./cm-required/patch/starlisp/f6101/patch-tracker.lisp
671	Sep	30	16:37	./cm-required/patch/starlisp/f6101/sideways-array.vbin2
476	Oct	3	18:13	./cm-required/patch/starlisp/f6101/cmfs-ioctl.lisp
3818	Oct	3	18:16	./cm-required/patch/starlisp/f6101/cmfs-ioctl.vbin2
1451	Oct	4	16:39	./cm-required/patch/starlisp/f6101/cmfs-errno.lisp
3396	Oct	4	16:44	./cm-required/patch/starlisp/f6101/cmfs-errno.vbin2
1482	Oct	16	18:35	./cm-required/patch/starlisp/f6101/v-is-zero-patch.lisp
3302	Oct	11	12:15	./cm-required/patch/starlisp/f6101/equal-patch.lisp
6541	Oct	11	13:31	./cm-required/patch/starlisp/f6101/equal-patch.vbin2
3071	Oct	16	18:42	./cm-required/patch/starlisp/f6101/v-is-zero-patch.vbin2
3418	Oct	30	15:26	./cm-required/patch/starlisp/f6101/vector-promotion-patch.lisp
5356	Nov	1	07:38	./cm-required/patch/starlisp/f6101/vector-promotion-patch.vbin2
724	Dec	18	17:59	./cm-required/patch/starlisp/f6101/realpart-imagpart-ftype-pat
2371	Dec	19	10:32	./cm-required/patch/starlisp/f6101/realpart-imagpart-ftype-pat
18553	Jan	13	17:51	./cm-required/patch/starlisp/f6101/node-reference-with-wrapper
18665	Jan	16	10:13	./cm-required/patch/starlisp/f6101/node-reference-with-wrapper
338	Feb	18	12:29	./cm-required/patch/c-paris/f6100/def-file-set.lisp
2161	Feb	18	12:25	./cm-required/patch/c-paris/f6100/transpose-patch.lisp
5097	Feb	18	12:30	./cm-required/patch/c-paris/f6100/transpose-patch.vbin2
10452	Jan	31	16:06	./cm-required/lcmw/6-1/database-release.lisp
58542	Jan	31	16:06	./cm-required/lcmw/6-1/saved-selections-release.lisp
173	Jan	31	16:14	./cm-required/dfs/site/min-mic-f6102.dfs
175	Jan	31	16:14	./cm-required/dfs/site/mop-beta-f5300.dfs
193	Jan	31	16:13	./cm-required/dfs/site/uc-assembler-beta-f6101.dfs
3374	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/bitblt-example.lisp
3787	Jun	19	1991	./cm-optional/starlisp/interpreter/f6101/canon-matrix-multiply
7333	Apr	8	1991	./cm-optional/starlisp/interpreter/f6101/cellular-automata-exa
7076	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/combinations-example.
6964	Jun	25	1991	./cm-optional/starlisp/interpreter/f6101/determinants-examples
51860	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/dictionary-examples.l
5338	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/example-batch-job.lis
526	Jan	23	00:25	./cm-optional/starlisp/interpreter/f6101/examples-def-file-set
2444	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/primes-example.lisp
2205	Apr	5	1991	./cm-optional/starlisp/interpreter/f6101/run-examples.lisp
10346	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/text-processing-examp
3335	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/timing-example.lisp
5883	Oct	12	1990	./cm-optional/starlisp/interpreter/f6101/very-long-addition-ex
13025	Apr	17	1991	./cm-optional/starlisp/interpreter/f6101/starlisp-sampler.lisp
981	Jul	1	1991	./cm-optional/uc-assembler/beta/f6101/def-file-set.lisp
21052	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/assem.vbin2
1701	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/calling.vbin2
36964	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/cm-asm.vbin2
5914	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/compute-length-of-cycle.
4732	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/defucode.vbin2
5404	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/entrypoints.vbin2
657	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/full-assembler-init.vbin2
12560	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/gmacs-hacks.vbin2
9472	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/lucid-printer.vbin2
7580	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/rev-4-macros.vbin2
51141	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/rev-4-uwdefs-ram.vbin2
6517	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/uc-macroexpand.vbin2
20503	Aug	7	1991	./cm-optional/uc-assembler/beta/f6101/uwdef.vbin2
410	Feb	3	1990	./cm-optional/mop/beta/f5300/def-file-set.lisp
15431	Feb	5	1990	./cm-optional/mop/beta/f5300/beta-instr.vbin2
13483	Oct	10	1989	./cm-optional/mop/beta/f5300/combined-sprint-beta-macros.vbin2
2012	Feb	1	1990	./cm-optional/mop/beta/f5300/macro-constructors.vbin2
32744	Feb	1	1990	./cm-optional/mop/beta/f5300/mop-macros.vbin2
35674	Mar	19	1990	./cm-optional/mop/beta/f5300/mop.vbin2
61979	Feb	4	1990	./cm-optional/mop/beta/f5300/pvo.vbin2
8439	Feb	5	1990	./cm-optional/mop/beta/f5300/sprint-macros.vbin2
2831	Oct	10	1989	./cm-optional/mop/beta/f5300/wassem-macros.vbin2
4278	Oct	10	1989	./cm-optional/mop/beta/f5300/wt13132-macros.vbin2
4076	Feb	5	1990	./cm-optional/mop/beta/f5300/wt13164-macros.vbin2
389	Jul	30	1991	./cm-optional/min-mic/f6102/def-file-set.lisp

```
45679 Aug 7 1991 ./cm-optional/min-mic/f6102/allocation.vbin2
 548 Aug 7 1991 ./cm-optional/min-mic/f6102/flag-ops.vbin2
15030 Aug 7 1991 ./cm-optional/min-mic/f6102/loop-macros.vbin2
59521 Aug 7 1991 ./cm-optional/min-mic/f6102/macros.vbin2
20734 Aug 7 1991 ./cm-optional/min-mic/f6102/min-mic-instr-macros.vbin2
49289 Aug 7 1991 ./cm-optional/min-mic/f6102/min-mic-macros.vbin2
27712 Aug 7 1991 ./cm-optional/min-mic/f6102/min-mic.vbin2
 8776 Aug 7 1991 ./cm-optional/min-mic/f6102/scratch-ram-uc.vbin2
 7135 Jan 31 15:56 ./cm-optional/installation/6-1/file-set-translations.lisp
28633 Feb 24 14:57 ./install-rts-patch
31952 Feb 24 15:10 ./6.1.1-installation-instructions
```

Appendix B

Sample Run of install-rts-patch

This run is on a Sun. I opted not to save the previous versions of the libraries and commands.

```
contingency!sean# ./install-rts-patch
CM2 Base System Software Version 6.1.1 Installation Procedure
```

This procedure installs patches for the 6.1 Final CM2 Base System Software Release.

Back up old versions of executables and libraries? (yes or no) [no] :

```
Updating User commands
User commands installed as files
```

```
Updating Administrator commands
Administrator commands installed as files
```

```
Updating Libraries
Libraries installed as files
```

```
Updating Header files
```

```
Updating CM2 microcode
```

```
Updating CM200 microcode
```

```
Updating NQS User commands
```

```
Updating NQS Administrator commands
```

```
Updating Manual pages
contingency!sean#
```

