

Source Management Tools

SYNOPSIS

The purpose of this section is to provide a general introduction into the source management tools available on most UNIX systems. The two specific tools are SCCS and RCS.

AVAILABLE SOURCE MANAGEMENT TOOLS There are basically two source management tools available on most UNIX systems. SCCS (Source Code Control System) comes with most UNIX systems as part of the operating system distribution. RCS (Revision Control System) is a shareware add on that development programmers prefer.

In this section we will take a brief look at both tools . The objective of these tools is to maintain a controlled environment for changing source code.

SCCS The Source Code Control System (SCCS) which comes with most UNIX systems is composed of several system commands for the creation and management of a code library. Users check modules out and in from the library via SCCS commands which are issued at the system prompt. Note that SCCS uses the term "delta" to indicate a revision change in a module.

A. SCCS COMMANDS

SCCS is composed of the following commands:

```
admin [-auser][ -dhdrflag][ -euser][ -fhdrflag[value]]
        [-h][ -ifilename][ -mmrlist][ -n][ -rnum num]
        [-t[file]][ -y[comment]][ -z] SCCS_filename<CR>
        Creates and initializes, changes existing, and
        checks and corrects damaged SCCS files.

cdc -rSID [-mmrlist] | [-m] [-ycomment] | [-y] file(s) | -<CR>
        Changes the comments in an SCCS delta.

comb [-o][ -s][ -p SID][ -c list] file<CR>
        Combines SCCS deltas.

delta [-glist][ -n][ -p][ -rSID][ -s][ -y] | [-ycomment]
        [-m] | [-mmrlist] files(s) | -<CR>
        Creates a delta in a SCCS file.

get [-b][ -c cutoff][ -e][ -g][ -i list][ -k][ -m] [-n]
        [-p][ -rSID][ -s][ -t][ -x list][ -w string]
        [[ -l] | [-lp]] file(s)<CR>
        Extracts a specified version of a SCCS file.

prs [-a][ -d "string"][ -rSID][ -ccutoff][ [-e] | [-l]]
        file(s)<CR>
        Displays a SCCS file.

sact file(s)<CR>
        Displays current SCCS file editing status.

sccsdiff -r SID1 -r SID2 [-p][ -s num] file(s)<CR>
        Compares two versions of an SCCS file.
```

scshelp [*errorcode(s)*][*command(s)*] <CR>
 Provides information about an SCCS message, command, or certain non-SCCS commands.

unget [-n][-rSID][-s] *file(s)* <CR>
 Cancels a previous **get** command.

val [-mname][-rSID][-s][-ytype] *file(s)* <CR>
 Validates SCCS files.

what [-s] *file(s)* <CR> Displays identifying information in files.

B. ADDITIONAL INFORMATION ON SCCS

Additional information on any of the above commands may be found on-line via the **man** command.

RCS

The Revision Control System (RCS) is a shareware product which is usually installed on most UNIX systems by the local system administrator. It is also composed of a series of commands like SCCS.

A. RCS COMMANDS

RCS is composed of the following commands:

ci [-r[rev]][-l[rev]][-u[rev]][-f[rev]][-k[rev]][
 [-q[rev]][-I[rev]][-d[date]][-M[rev]][-mmsg]
 [-nname][-Nname][-sstate][-tfile][-t-string]
 [-wlogin][-Vn][-xsuffixes] *file(s)* <CR>
 Check in RCS revisions.

co [-r[rev]][-l[rev]][-u[rev]][-f[rev]][-kkv][-kkvl]
 [-kk][-ko][-kv][-p[rev]][-q[rev]][-I[rev]][
 [-d[date]][-M[rev]][-sstate][-wlogin][-jjoinlist]
 [-Vn][-xsuffixes] *file(s)* <CR>
 Check out RCS revisions.

ident [-q] [*file(s)*] <CR>
 Identify files.

rccs [-i][-alogins][-Aoldfile][-e[logins]][-b[rev]][
 [-cstring][-ksubst][-l[rev]][-u[rev]][-L][-U]
 [-mrev:msg][-nname[:rev]][-Nname[:rev]][
 [-orange][-q][-I][-sstate:rev][-t[file]][
 [-t-string][-Vn][-xsuffixes] *file(s)* <CR>
 Change RCS file attributes.

rccsdiff [-ksubst][-q][-rrev1]
 [-rrev2][-Vn][-xsuffixes][*diff_options*] *file(s)* <CR>
 Compare RCS revisions.

rccsmerge [-ksubst][-p[rev]][-q[rev]][-r[rev]][-Vn]
 [-xsuffixes] *file* <CR>
 Merge RCS revisions.

rlog [-L][-R][-h][-t][-b][-ddates][-l[lockers]][
 [-r[revisions]][-sstates][-w[logins]][-Vn]
 [-xsuffixes] *file(s)* <CR>

Print log messages and other information
about RCS files.

B. ADDITIONAL INFORMATION ON RCS

Additional information on any of the above commands may be found on-line via the *man* command. In addition, there are man pages on the topics of *rscfiles(5)* and *rscintro(1)* which will provide a more detailed description as to the workings of RCS.

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NOTES