

# BitKeeper Reference Card

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## BitKeeper Command Syntax

**bk** [*global\_options*] *command* [*command\_options*] [*args*]

### Global Options:

- R** Perform operation at root of repository
- r** Perform recursive operations

### Options common to most commands:

- v** Run verbosely
- q** Run quietly

## Repository-Level Commands

### bk abort

Abort a failed pull, push, or resync

### bk changes

List changesets in this repository. See also **bk revtool**.

### bk -r check -a [*options*]

Run a consistency check (like fsck).

- w** List writable files without lock files.

### bk clone [*options*] *source destination*

Make a copy of a repository

**-rrev/tag** clone backwards to the changeset specified by *rev* or *tag*.

### bk commit [*options*]

Group checked in changes into a changeset

- yx** Set check-in comment to *x*

See also **bk cftool**.

### bk export [*options*] [*source*] *dest*

Extract a particular version as a tree or a patch

- ipat** Export only pathnames matching pattern *pat*.

- k** Do not expand keywords.

- rrev** Export the tree as of revision *rev*.

- tpatch** Export the specified revision[s] as a traditional patch.

- xpat** Export all pathnames not matching pattern *pat*.

### bk import [*options*] *source dest*

Import external changes into a BK repository.

- tpatch** Import a patch (can be done repeatedly).

- tCVS** Import a CVS (one time only).

## Repository-Level Commands...

### bk parent [*repository*]

Show or set the repository from which we pull or to which we push

### bk pending

Show checkins made to files in this repository which have not been committed to a changeset.

### bk pull [*options*] [*source*]

Pulls changes from the parent or source to this repository

- i** Turn off automerger
- l** Verbose listing of changesets to be pulled
- n** Dry run, list changes (-l for verbose listing)

### bk push [*options*] [*destination*]

Push changes from this repository to the parent or dest

- a** Automatically do a pull if the push has conflicts
- l** Verbose listing of changesets to be pushed
- n** Dry run, list changes (-l for verbose listing)

### bk receive [*takepatch\_options*] [*repository*]

Apply patches received via email (see also **bk send**)

- a** Call resolve to apply the changes

### bk resolve [*options*] [*project\_root*]

Merge conflicts created by a pull

- a** Automerger if possible
- l** Show more status on stderr
- t** Text-only mode, use no GUI tools.
- y[msg]** Use *msg* as the check-in message

### bk send [*options*] *email\_address*

Synchronize repositories using email as the transport.

- d** Prepend the patch with unified diffs.

- wcmd** Wrap the patch with *cmd* before sending it.

- rrevs** Specify the list of changesets to send.

### bk setup [*options*] [*directory*]

Create a new BitKeeper package

- cfile** Use *file* as the configuration file

Use **bk clone** to create copies, **bk setup** is for the creation of a new package.

### bk status [*options*] [*repository*]

Shows repository information such as number of files, uncommitted files, *bk version*, etc.

### bk tag [*options*] *symbol*

Tags the most recent changeset with a symbolic name

- rrev** Tag *rev* instead of most recent changeset.

See also **bk clone -r**.

### bk version

Shows BitKeeper software version.

## File-Level Commands

### Specifying file argument lists

**bk cmd** - invokes *cmd* on *./SCCS/s.\**

**bk cmd \*c** - invokes *cmd* on *./SCCS/s.\*c*

**bk -r cmd** - invokes *cmd* on all revision controlled files  
**bk -rdir cmd** - as above, starts at *dir* instead of repository root

**bk -c -r cmd** - invokes *cmd* on all modified files

**bk -x -r cmd** - invokes *cmd* on all files **not** under revision control

See also **bk sfiles**.

### bk ci [*options*] [*files*]

Checks in locked and modified files

- ystr** Sets the revision comment to *str*

- p** Prints differences before prompting for comments

### bk clean [*options*] [*files*]

Unlock and remove unmodified working files

- p** Shows differences for all modified files

### bk co [*options*] [*files*]

Check out files

### bk diffs [*options*] [*files*]

Show differences in revision controlled files

- c** Do context diffs

- D** Prefix diffs with dates (2 revisions only)

- f** Prefix lines with file names

- M** Prefix lines with revision numbers

- rrev** Diff working file against revision *rev*

- r1..r2** Diff revision *r1* against revision *r2*

- U** Prefix lines with user names

- u** Do unified diffs

### bk edit [*options*] [*files*]

Checks out and locks files for editing.

### bk mv *source destination*

move file, recording the move

### bk mvdir *source destination*

move directory, recording the move for all files

### bk new [*options*] [*files*]

Add a new file to the repository

### bk prs [*options*] [*files*]

View revision history of a file or repository

- cdates** Cut-off dates.

- dspec** Specify output data specification

- h** Suppress headers

- rrev** Specify a revision, or part of a range

### bk rm *files*

Remove a file in a recoverable way

### **bk sccslog [options] [files]**

Time ordered listing of deltas over all files

### **bk sfiles [options] [directory]**

Generates a list of files.

- c List locked and modified files
- d List directories under revision control
- n List files not in the correct location (names)
- p List files with pending deltas
- x List files not under revision control

### **bk undo [options] [files]**

Remove one or more changesets

- arev Remove all changesets which occurred after rev
- f Do not prompt for confirmation
- s Do not save undone changes as a patch
- rrevs Remove the list of changesets specified by revs

### **bk what files**

Shows SCCS keywords embedded within a file

## **BitKeeper File Types**

**foo.c**

gfile, this is your source file

**SCCS/s.foo.c**

s.file - file with all revision history

**SCCS/p.foo.c**

p.file - lock file created when file is edited

**SCCS/z.foo.c**

z.file - lock file created when checking in a new version

**SCCS/x.foo.c**

x.file - temporary file containing s.file underway

## **Common operations**

### **Get a working copy of a tree**

bk clone bitmover.com:/home/bk/bugfixes

### **Edit some files**

cd bugfixes/src

bk vi sccs.h slib.c

### **Check in the files, creating a changeset**

bk citool

### **Push the changes back up**

bk push

### **Pull updates**

bk pull

### **Graphically browse a file's history**

bk revtool file

### **Graphically browse a project's history**

bk revtool

## **Graphical Tools**

### **bk citool [dir or file list]**

Graphical checkin tool, shows all modified files and all files not under revision control. Click on a modified file and the differences are shown and a comment window is available for checkin comments. Can pop up an editor tool to walk through changes; can pop up revtool to view history. Integration with the bug database is coming.

### **bk csettool [-rrevs]**

View all changes contained in a changeset or set of changesets. Lists the changesets, the deltas in each file in each changeset, and shows the differences of each file.

### **bk difftool left right**

Side-by-side file difference viewer. If *right* is a directory the implied name is *right/left*, like diff(1).

### **bk fntool local remote merge**

Side-by-side merge tool for resolving differences. Walks through each change, allows you to select either, places the selection in a merge window which can then be edited directly.

### **bk helptool [topic]**

Online help system with search facility.

### **bk repotool**

Graphical tool to manage projects and bug database

### **bk revtool [filename]**

Graphically browse file or project history. Click left on a node and then click right on a later node to view differences. Double click on a node to get an annotated listing of that version of the file. Hit "c" to get an annotated listing of all versions of a file (try this!). Click on any line in an annotated listing to jump to that node of the revision history. Click "View Changeset" to see all other files changed at the same time as the selected line.

## **Range and Date Syntax**

Commands that take a revision option, -r, can take either a range of deltas or a range of dates as the argument.

Specify both endpoints:

-r1.1.1.5

Specify dates:

-c98..98

## **Merging**

### **bk help merging**

Get help on the merge process

### **bk help merge-binaries**

Get help on merging binaries

## **Searching**

### **bk grep [options] pattern [files]**

Search some/all revisions of one or more files for a string.

### **bk annotate [options] [files]**

Show an annotated listing

### **bk sccscat [options] [files]**

Show an annotated listing of all versions of a file

## **Getting more help**

### **Other commands**

This reference card is not a complete listing of the commands and their options; it lists the most commonly used combinations. See the help facilities described below for a complete listing.

### **bk helptool [cmd]**

Graphical, hyperlinked, searchable help tool. Shows all man pages, can search on words, page views stack like Netscape.

### **bk help cmd**

Shows man page like help for *cmd*.

<http://www.bitkeeper.com/UG>

Online user guide.

### **bk sendbug**

To report a bug or request a feature.

[mail support@bitmover.com](mailto:mail.support@bitmover.com)

For support from the development team.

+1-415-401-8808

For right now support.