

BitKeeper Reference Card

BitMover, Inc.
415-401-8808
<http://www.bitkeeper.com>

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 or push

bk changes

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

- L** List changes in local that are not in remote
- R** List changes in remote that are not in local

bk -r check -acv [*options*]

Run a consistency check (like fsck).

- f** Fix any fixable errors found during check.

bk clone [*options*] *source destination*

Make a copy of a repository

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

- l** Make a hard linked clone (Unix only).

bk commit [*options*]

Group checked in changes into a changeset

- yC** Set check-in comment to *C*
- YC** Get check-in comment from file *C*

See also **bk citool**.

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

Extract a particular version as a tree or a patch

- lpat** 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*.

Repository-Level Commands...

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).

bk parent [*repository*]

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

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

Pulls changes from the parent or source to this repository

- i** Turn off automeerge

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

Push changes from this repository to the parent or dest

- a** Automatically do a pull if the push has conflicts

bk resolve [*options*] [*project_root*]

Merge conflicts created by a pull

- a** Automeerge if possible

- t** Text-only mode, use no GUI tools.

- ymsg** Use *msg* as the check-in message

bk setup [*options*] *directory*

Create a new BitKeeper package in *directory*.

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

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

See also **bk setuptool**.

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 unpull

Remove changesets added by the most recent **bk pull**.

Also removes the merge if any.

bk version

Shows BitKeeper software version.

File-Level Commands

Specifying file argument lists

bk cmd - invokes *cmd* on all files in this directory only

bk cmd *c - invokes *cmd* on **c*

bk -r cmd - invokes *cmd* on all revision controlled files

bk -rdir cmd - 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

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

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

- r@cset** Diff working file against version in changeset *cset*

- u** Do unified diffs

bk fix [*file.c*]

Re-edit a checked in, but uncommitted, delta

- c** Re-edit the most recent changeset (use with caution).

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

Checks out and locks files for editing.

bk mv *source destination*

move file or 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

File-Level Commands...

bk scslog [*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
- revs 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 bk://linux.bkbits.net/linux-2.5

Edit some files

cd linux-25

bk vi Maintainers

Check in the files, creating a changeset

bk ci tool

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 ci tool [*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.

bk csetool [-*revs*]

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 fm3tool *local gca remote file*

3-way 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. Typically called from resolve.

bk fntool *local remote merge*

2-way side-by-side merge tool for resolving differences.

bk helptool [*topic*]

Online help system with search facility.

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.

bk setuptool [*package*]

Graphical tool to setup a new package.

bk sendbug [-*t*]

Graphical tool (or text based with -t) tool to report a bug.

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 scscat [*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 web browsers.

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

For support from BitMover.

+1-415-401-8808

For right now support.