

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 ci**tool.

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

For support from the development team.

+1-415-401-8808

For right now support.