

BitKeeper Reference Card

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<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`

Main command for browsing the repository history. See `bk help changes` for other useful options. See also `bk revtool`.

- `-L` List changes in local that are not in remote
- `-R` List changes in remote that are not in local
- `-lpat/` List changesets whose comments include *pat*.
- `-uuser` List changesets created by *user*.

`bk repocheck`

Run a consistency check (like fsck).

`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 help citool`.

`bk export [options] [source] dest`

Extract a particular version as a tree or a patch

- `-k` Do not expand keywords.
- `-rrev` Export the tree as of revision *rev*.
- `-tpatch` Export the specified revision[s] as a traditional patch.

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 [repo]`

Show or set the repository from which we pull or to which we push (Note: repos may have multiple parents; see `bk help parent`)

`bk pull [options] [source]`

Pull changes from the parent or source to this repository

- `-i` Turn off automerger
- `-rrev` Pull up to, but not past, *rev*.

`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 conflicts [options]`

Show files that are in conflict in an unresolved pull.

- `-v` Be more verbose about who/what. `-vv` is yet more verbose.

`bk resolve [options] [file ...]`

Merge conflicts created by a pull

- `-a` Automerger if possible
- `-t` Text-only mode, use no GUI tools.
- `-y[msg]` 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] [repo]`

Show repository information such as number of files, uncommitted files, BitKeeper version, etc.

`bk tag [options] symbol`

Tag 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`

Show BitKeeper software version.

File-Level Commands

Specifying file argument lists

- `bk cmd` – invoke *cmd* on all files in this directory only
 - `bk cmd *.c` – invoke *cmd* on **.c*
 - `bk -r cmd` – invoke *cmd* on all revision controlled files
 - `bk -rdir cmd` – start at *dir* instead of repository root
 - `bk -c -r cmd` – invoke *cmd* on all modified files
 - `bk -x -r cmd` – invoke *cmd* on all files **not** under revision control
- See also `bk sfiles`.

`bk ci [options] [files]`

Check in locked and modified files

- `-ystr` Set the revision comment to *str*
- `-p` Print differences before prompting for comments

`bk clean [options] [files]`

Unlock and remove unmodified working 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*
- `-rr1..r2` Diff revision *r1* against revision *r2*
- `-r@cset` Diff working file against version in changeset *cset*
- `-u` Do unified diffs

`bk edit [options] [files]`

Check out and lock 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 log [options] [files]`

View revision history of a file

- `-cdate` 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 sfiles [options] [directory]`

Generate a list of files.

- `-c` List locked and modified files
- `-n` List files not in the correct location (names)
- `-p` List files with pending deltas
- `-x` List files not under revision control
- `-E` List "everything" in an `ls -l` style format

File-Level Commands...

bk undo [options] [files]

- Remove one or more changesets
- rev Remove all changesets that occurred after rev
- f Do not prompt for confirmation
- revs Remove the list of changesets specified by revs

bk what files

Show SCCS keywords embedded within a file

BitKeeper File Types

foo.c	gfile, this is your source file
SCCS/s.foo.c	sfile - file with all revision history
SCCS/p.foo.c	pfile - lock file created when file is edited
SCCS/z.foo.c	zfile - lock file created when checking in a new version
SCCS/x.foo.c	xfile - temporary file containing sfile underway

Common operations

Get a working copy of a tree

bk clone bk://mysql.bkbits.net/mysql-3.23

Edit some files

cd mysql-3.23 && bk vi README

Create new files

bk new *.ch

Create a patch of all changed or new files

bk -xcr diffs -Nu > /tmp/patch

Check in the files, creating a changeset

bk citool

Push the changes back up

bk push

Pull updates

bk pull

View a changeset as diffs plus comments

bk changes -vvrrev

Search for a string in the most recent version

bk -r grep -r+ string

Search for a string in all versions

bk -r grep -R string

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 to view the differences and enter checkin comments for that file in the comment window.

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 for 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 -llocal -rremote -omerge 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 fmtree 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. Press "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 setupool [package]

Graphical tool to setup a new package.

bk sendbug [-t]

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

Range and Date Syntax

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

Date format is YYMMDDhhmmss.

- r1.1..1.5 # specify both endpoints
- c06..06 # all changes in 2006
- c-1M # all changes in the last month

Merging

bk help resolving

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. See **bk help grep**; this command is now much closer to GNU grep.

bk annotate [options] [files]

Show an annotated listing

bk annotate -R [options] [files]

Show a 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, with word search and a 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

http://db.bitkeeper.com/

To search existing bug reports

mail support@bitmover.com

For support from BitMover.

+1-408-370-9911 (international & California)

1-888-401-8808 (toll free in US & Canada)

For right now support.