

BitKeeper Reference Card

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<http://www.bitkeeper.com>

BitKeeper Command Syntax

bk [globaloptions] command[commandoptions] [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 **revtool**.

- L List changes in local that are not in remote
- R List changes in remote that are not in local
- /pat/ 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
- rrevtag 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 ci** tool.

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 automerge
 - rrev Pull up to, but not past rev.

bk push [options] [destination]

- Push changes from this repository to the parent or destination
- 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 Automerge 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 setup tool**.

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
- arev Remove all changesets that occurred after rev
- f Do not prompt for confirmation
- rrevs 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 s.file 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. List 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 -o merge 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. Doubleclick 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 V 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) 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@bitkeeper.com](mailto:support@bitkeeper.com)

For BitKeeper support.

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For right now support.