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
   -r*rev|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
   -i*pat*   Export only pathnames matching pattern *pat*.
   -k   Do not expand keywords.
   -r*rev*   Export the tree as of revision *rev*.
   -t*patch* Export the specified revision[s] as a traditional
      patch.
   -x*pat*   Export all pathnames not matching pattern *pat*.

Repository-Level Commands...

bk import [*options*] *source dest*
   Import external changes into a BK repository.
   -t*patch* Import a patch (can be done repeatedly).
   -t*CVS* 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 automerge

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   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*.
   -c*file*   Use *file* as the configuration file
   Use **bk clone** to create copies, **bk setup** is for the cre-
   ation 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
      -r*rev* 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 -r*dir 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
   -y*str*   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
   -r*rev*   Diff working file against revision *rev*
   -r*r1..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 cau-
      tion).

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
   -c*date* Cut-off dates.
   -d*spec* Specify output data specification
   -h   Suppress headers
   -r*rev*   Specify a revision, or part of a range

bk rm *files*
   Remove a file in a recoverable way

File-Level Commands...

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
- **-a**_rev_ Remove all changesets which occurred after *rev*
- **-f** Do not prompt for confirmation
- **-s** Do not save undone changes as a patch
- **-r**_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 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.

bk csettool [**-r***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 fmtool *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 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 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.