## MKS TOOLKIT FOR DEVELOPERS

A mixed computing environment, by consequence, demands a consistent set of commands and utilities. A significant number of corporate developers are fluent in the UNIX environment, so utilities which are UNIX-based yet operate in Windows can instantly leverage the skills of UNIX trained people onto new platforms. Scripting languages and familiar tools ensure that the valuable programming expertise of UNIX developers, and the power of commands such as the KornShell, CShell, awk, and Perl, does not have to be compromised because of the introduction of Windows. Such utilities also reduce the immediate need for cross-platform training.

Global 2000 customers use the market-leading MKS Toolkit® for Developers product to build interoperability between their Windows and UNIX corporate computing systems. Developers, system administrators, quality assurance teams and Webmasters all rely on MKS Toolkit for Developers to dramatically improve their productivity, flexibility and power when developing software or performing administrative tasks on Microsoft platforms.

**Benefits of MKS Toolkit for Developers:**

- Lower Total Cost of Ownership

- Leverage investments in UNIX and Windows

- Native Windows Architecture

- Automate tasks and increase productivity

- Securely access and administer remote systems

- Effortless Control over the Quality of your System Configuration

MKS Toolkit for Developers also accelerates personal performance on the Windows platform by including Windows specific tools
to:

- Unify and automate software builds across UNIX and Windows

- Connect to remote UNIX and Windows machines

- Access or update Windows user and group accounts, permissions, security information, and local or remote registry entries

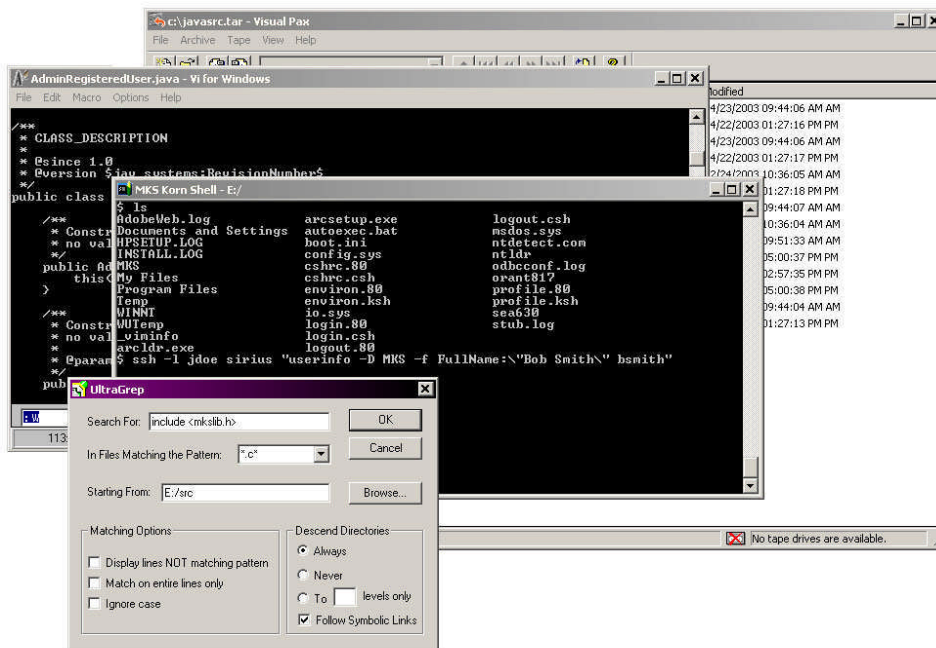- Query a database for information to be processed in batch mode

Issues of interoperability also affect development for the Web, as companies blend together UNIX and Windows Web servers. MKS Toolkit for Developers has high performance text utilities and specialized Web development tools that are ideal for maintaining HTML and all aspects of Web sites.

### Lower Total Cost of Ownership

Instead of choosing between Windows and UNIX, most MIS organizations are opting for a mix of the two operating systems, with many larger organizations using Windows as an add-on to their enterprise-wide backroom strategy. In order to decrease the total cost of ownership (TCO) of their business, these companies need a single suite of tools that can help their teams be more productive.

### Leverage Investments in UNIX and Windows

MKS numerous UNIX shell environments, including KornShell, bash and CShell, provide the ability to seamlessly port advanced UNIX scripts to the Windows environment. POISIX compliant file and text manipulation tools like `vi`, `grep`, and find simplify the interoperability initiative within an organization. MKS Toolkit for Developers enables IT staff to easily and efficiently establish, maintain and customize their organization's Windows network and user environment.

POISIX compliant file and text manipulation tools like `vi`, `grep`, and `find` simplify the interoperability initiative within an organization.  MKS Toolkit for Developers enables IT staff to easily and efficiently establish, maintain and customize their organization's Windows network and user environment.

## A Native Windows Architecture

The ability to control Windows applications, interact with the latest technologies and improve team and inter-team communication is key to successful application development, saving valuable time and enhancing program capabilities. With full support for multibyte/Unicode characters and 64-bit Windows systems, MKS provides support for the newest, most powerful systems, around the world.  MKS Toolkit for Developers is developed on top of the native Windows subsystem. This allows all of the MKS utilities to truly interact with any application or process running in the operating environment.  Further, MKS is the only solution available on 64-bit Windows platforms.  MKS Toolkit for Developers allows you to interact with today's Microsoft mail, database and Internet/ Intranet technologies.

*"...I keep using MKS Toolkit, in preference to Cygwin or Microsoft's Subsystem for UNIX-based Applications, is that MKS allows use of Windows native file names in all contexts. This tremendously facilitates true "mixed-mode" development environments."  Nearspace*

## Automate Tasks and Increase Productivity

Scripting is an excellent way to solve many computing tasks.  MKS Toolkit for Developers ships with many commands and utilities – `awk`, `sed`, Perl, CShell, KornShell, Graphical KornShell, and more— to allow you to quickly and easily create powerful and robust solutions for your organization.

MKS Toolkit for Developers scripts can be written as stand alone utilities or combined with other scripts, MKS Toolkit for Developers utilities or third party commands and applications help to automate routine tasks and increase productivity.  Issues as simple as searching for and moving files to archiving entire file systems, creating mid-size web applications or prototyping large development efforts can be designed and implemented with MKS Toolkit for Developers scripts and utilities.

## Securely Access and Administer Remote Systems

Putting a copy of an MKS Toolkit for Developers product on each of your servers will give you the ability to connect to your network machines from anywhere else on your network or via a dialup line to perform any necessary administration tasks.  In a mixed UNIX and Windows environment, you will be able to access applications on your UNIX servers, directly from your Windows desktops without ever leaving your desk.

- A telnet server, allowing remote access to the Windows machine

MKS Toolkit

- Secure shell client/service as well as other secure utilities (`scp, sftp`).

- Remote shell, `rlogind` and `rexecd` services, for remote access to Windows systems

- Remote utilities (`rsh, rexec, rcp, rlogin`) for accessing other UNIX and Windows machines

- Visual SFTP –graphical application to transfer and manipulate files to/from/on remote UNIX/Windows systems

## Effortless Control over the Quality of your System Configuration

A significant number of System Administrators are fluent in the UNIX environment, so utilities that are UNIX-based and follow the UNIX philosophy, yet operate in the Windows environment, can easily leverage the skills of these people on the Windows platform.

Harness the power of UNIX on Windows…

- MKS Toolkit for Developers contains hundreds of authentic UNIX utilities such as `df, du`, and `ls`, as well as `ksh, csh`, and `bash` shells. Therefore, you can immediately start using your UNIX skills and scripts on Windows

- Administer both Windows and UNIX systems using the Interoperability capabilities such as password synchronization and remote utilities and daemons such as password synchronization and remote utilities and daemons

.*, :*, [*, [[*, 64decode, 64encode, a2p, addftinfo, afmtodit, alias*, appc, appres, ar, asa, assoc, at, atobm, authkey, autorun, awk, awkc, banner, basename, bash, batch, bc, bdiff, bindres, bitmap, bmtoa, break*, bunzip2, bz2cat, bzcmp, bzdiff, bzegrep, bzfgrep, bzgrep, bzip2, bzip2recover, bzless, bzmore, c, cal, calendar, cat, cc, cd*, cdate, chacl, chgrp, chmod, chown, cksum, clean64, clear, cmp, col, color, comm, command*, compress, connrlogin, connrsh, connssh, continue*, cp, cpio, cpp, cppstdin, crontab, crypt, csh, csplit, ctags, ctime, cut, date, db, dc, dd, dde, deroff, desktop, dev, df, diff, diff3, diffb, diffh, dircmp, dirname, dirs*, dlg*, domain, dosname, du, echo*, echo, ed, editres, egrep, encode_keychange, env, eqn, eval*, eventlog, ex, exec*, exit*, expand, export*, expr, false*, false, fc*, fgrep, file, filebox, filever, find, flip, fmt, fold, fping, fsinfo, fslsfonts, fstobdf, ftype, functions*, gawk, gdf, gdir*, gencat, getconf, getopt, getopts*, ghist*, gmake, gman, gps, grconfig, grep, gres, grodvi, groff, grog, grohtml, grolj4, grops, grotty, groupinfo, gset*, gunzip, gvar*, gzcat, gzip, halt, hash*, hd, head, help, hist*, history*, hostinfo, hpftodit, htdiff, htsplit, htstrip, iceauth, iconv, id, igawk, imapmail, indxbib, infocmp, install, integer*, ipcrm, ipcs, jobs*, join, kill*, kill, ksh, kterm, launch_xterm, lc, ld, let*, line, lkbib, ln, logname, look, lookbib, ls, lsacl, lsshare, m4, mailx, make, makedepend, makeg, man, manstrip, mapimail, member, mergelib, miniperl, mkcatdefs, mkdir, mkdirhier, mkfifo, mks_env*, mksauth, mkscgi, mksdiag, mkshare, mksinfo, mkszip, mkurl, more, mount, msgbox, mt, mv, ncoeenv, netnews, nl, nm, nroff, ntps, oclock, od, openssl, pack, passwd, paste, patch, pathchk, pax, pcat, pending, perl, perror, pfbtops, pg, pic, pop3mail, popd*, portcheck, pr, print*, printenv, printf*, printf, priv, process, proxymngr, ps, pshb, pscript, pushd*, pwd*, pwd, r*, ranlib, rconfig, rcp, read*, readonly*, red, refer, registry, regps, resh, resize, return*, rev, rexec, rexecd, rlogin, rlogind, rm, rmdir, rmshare, rsetup, rsh, rshd, scp, secsh, secsh-add, secsh-agent, secsh-askpass, secshd, secsh-keygen, secsh-keyscan, sed, sendevent, service, set*, sftp, sftp-server, sh, shift*, shopt*, shortcut, showrgb, shutdown, sid, size, sleep, smproxy, smtpmail, snetnews, snmpbulk, snmpbulkget, snmpbulkwalk, snmpdelta, snmpdf, snmpget, snmpgetnext, snmpinform, snmpnetstat, snmpset, snmpstatus, snmptable, snmptest, snmptranslate, snmptrap, snmptrapd, snmpusm, snmpvacm, snmpwalk, soelim, sort, spell, split, ssh, ssh-add, ssh-agent, ssh-askpass, ssh-keygen, ssh-keyscan, start, stat, strerror, strings, strip, stty, su, sum, sync, sysinf, tail, tar, taskrun, tb*, tbl, tclsh, tee, teln, telnetd, test*, test, tfmtodit, tic, time*, time, times*, tksched, touch, tput, tr, trap*, true*, true, truss, tset, tsort, tty, twm, type*, typeset*, ugrep, uil, umask*, umount, unalias*, uname*, uname, uncname, uncompre, uncompress, unexpand, uniq, units, unpack, unset*, unzip, uptime, url, userinfo, uudecode, uuencode, vdiff32, vi, view, Visual SFTP, viw, vpax, wait*, wc, wcopy, web, whence*, whereis, which, who, whoami, winctrl, windir, wml, wpaste, ws, wstart, wts, x11perf, xargs, xauth, xclipboard, xclock, xcmsdb, xcutsel, xd, xdpyinfo, xfd, xfindproxy, xhost, xkill, xlogo, xlsatoms, xlsclients, xlsfonts, xmag, xmbind, xmkmf, xmodmap, xprop, xrdb, xrefresh, xset, xsetroot, xsm, xstdcmap, xterm, xwd, xwininfo, xwud, zcat, zip, zipinfo

*Subset of MKS Toolkit for Developers Commands and Utilities (* denotes KSH Built-In and/or ported Sample)*

- Using powerful UNIX commands such as `awk`, supplemented with our KornShell's `dlg` dialog building utility, you can get all the information you need about your Windows system, and you can avoid going to the registry to find what you want

- Use UNIX commands to perform file backups across multiple platforms

UNIX system administrators will appreciate a set of familiar commands on Windows and UNIX-style command-line utilities for interacting with Windows features. Windows system administrators will appreciate the increased flexibility of traditional UNIX command-line tools in their Windows environment. Mail administration, file management, registry editing, server management, the powerful `vi` editor, are only a few of the many features of MKS Toolkit system administration products.

Streamline your administrative workload…

- Use automated scripts to:
  - Improve manageability of Windows in large installations by populating and managing registry entries en masse
  - Administer user accounts in batch (e.g., after a reorganization or a merger), instead of oneby- one
  - Perform repetitive tasks on large numbers of machines

- Manage Windows environments with standardized tools and scripts that also work in UNIX and Linux environments
  - Easily perform other common tasks that may be difficult to do using standard Windows facilities:
  - Add users and groups
  - Control services
  - Perform complex file searches
  - Copy permissions
  - Do UNIX-compatible backups
  - Move data and files between machines
  - Remotely administer systems
  - Clone a system file tree or document tree
  - Copy a standard user setup to a new user account

MKS Toolkit

## MKS Toolkit for Developers Features

- Over 450 UNIX and Windows command-line utilities (full POSIX.2 specification)

- A wide selection of command environments, (KornShell, CShell, `bash`, `Tclsh`) offering greater control, flexibility, and a wider range of functionality then the traditional Windows Command Prompt

- Visual SFTP Explorer extension allowing drag/drop and other file operations through the graphical Windows interface

- Access remote UNIX, Linux, and Windows systems with Secure Shell utilities (`secsh/secshd, scp, sftp`), Remote Shell utilities (`rsh/rshd, rexec/rexecd, rlogin/rlogind, rcp), telnetd,` and `xterm`

- MKS utilities and APIs now support multibyte/Unicode characters within file content, file and directory names, pipes, environment variables, console displays, and other areas

- A powerful schedulinginterface as well as a suite of command-line utilities (at, batch, crontab, taskrun, and wts) for automating routine tasks

- SNMP (Simple Network Management Protocol) services and utilities that allow you to control network devices and their functions

- Tools and utilities for manipulating HTML content (`htdiff, htsplit, htstrip, url, mkurl`)

- Commands to pull or push content from local or remote servers, implement Web CGI scripting, and active Perl scripting (`web, mkscgi,` PScript™)

- File system handling commands (`mount, umount`) and symbolic link support

- Copy permissions between objects and manipulate Win32 file and user security attributes (`chacl, lsacl, su`)

- Create and manage users, groups, and permissions on Windows (`userinfo, groupinfo, member`)

- Tape and archive commands (`tar, pax, cpio, mt`), for creating UNIX-compatible backups

- Compression utilities (`zip, unzip, gzip, gunzip`) to complement the `mkszip` and `uncompress` commands

- Manipulate device drivers, Windows domains, and file associations (`dev, domain, ftype`)

## In a Nutshell

MKS Toolkit for Developers dramatically improves the compatibility between Windows and UNIX environments. MKS Toolkit for Developers provides a comprehensive suite of UNIX and Windows utilities for Windows, enabling developers and system managers to customize, control, and automate software development and administrative processes. Request an evaluation copy of MKS Toolkit for Developers and learn more about the rest of the MKS Toolkit line of products and services by pointing your browser to www.mkssoftware.com.

### Worldwide Offices

| | | |
|---|---|---|
| 12701 Fair Lakes Circle | Martinstraße 42-44 | Third Floor, Duke's Court |
| Suite 350 | 73728 Esslingen | Duke Street, Woking |
| Fairfax, VA | Deutschland | Surrey  GU21 5BH |
| 22033  USA | Germany | United Kingdom |
| tel: 703 803 3343 | tel: +49 711 351775 7522 | tel: +44 (0) 1483 733923 |
| fax: 703 803 3344 | fax: +49 711 351775 7555 | fax: +44 (0) 1483 733901 |
| sales: 800 637 8034 | | sales: +44 1483 733919 |