



VMS Software

GNV Field Test Version 3.0-2C for VSI OpenVMS x86-64

Release Notes

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Operating System: VSI OpenVMS x86-64 Version 9.2-3 or higher

Software Version: GNV Field Test Version 3.0-2C for VSI OpenVMS x86-64

Kit Name: VSI-X86VMS-GNV-V0300-2C-1.PCSI\$COMPRESSED

Table of Contents

1. Introduction	3
2. What's New in This Release	3
3. Requirements	5
4. Recommended Reading	5
5. Installing the Kit	5
6. Known Issues and Limitations	6

1. Introduction

Thank you for your interest in GNV for VSI OpenVMS x86-64. This first release of GNV for VSI OpenVMS on x86-64 systems is V3.0-2C.

Note

GNV V3.0-2C is a field test version and not all features are complete yet. VSI would welcome information on any bugs that you might find, as well as general feedback regarding how the GNV product might be improved and enhanced.

GNV is an open-source, GNU-based environment for OpenVMS that provides application developers, system managers, and users a UNIX-style environment on OpenVMS.

GNV includes the following:

- Bash is a command processor, an alternative to DCL.
- GNU Core Utilities are basic file, shell, and text manipulation utilities, such as sort, md5sum, ls, printf, etc.
- GNU AWK is a special-purpose programming language for data reformatting.
- GNU grep is a tool that searches a file for lines containing a match to a specified pattern.
- GNU sed is a non-interactive command-line text editor.
- GNU LD is a linker that combines a number of object and archive files, relocates their data, and ties up symbol references.
- GNU AR creates, modifies, and extracts from archives.
- Make is a building tool.

2. What's New in This Release

This GNV package contains two instances of the make utility. They are as follows:

- MAKE.EXE (default), for use with UNIX-style makefiles (version 3.78.1).
- VMS_MAKE.EXE for use with VMS-like makefiles to run DCL scripts (version 4.4.90).

To work with VMS_MAKE.EXE (instead of the default MAKE.EXE), execute the following command:

```
MAKE ::= $ GNU:[BIN]VMS_MAKE.EXE
```

The gnu/bin utilities included in this kit are as follows:

ar.exe	arch.exe	base64.exe
basename.exe	bash.exe	bashdebug.exe
bigram.exe	bison.exe	bzip2.exe
cat.exe	cc.exe	chcon.exe
chgrp.exe	chmod.exe	chown.exe
chroot.exe	cksum.exe	cmp.exe

code.exe	comm.exe	cp.exe
csplit.exe	cut.exe	date.exe
dd.exe	df.exe	diff.exe
diff3.exe	dir.exe	dircolors.exe
dirname.exe	du.exe	echo.exe
env.exe	execv_symbol.exe	expand.exe
expr.exe	factor.exe	false.exe
find.exe	flex.exe	fmt.exe
fold.exe	frcode.exe	gawk.exe
gcc.exe	gnv\$ar.exe	gnv\$bash.exe
gnv\$bzip2.exe	gnv\$bzip2recover.exe	gnv\$debug-ar.exe
gnv\$debug-ld.exe	gnv\$ld.exe	gnv\$libbz2_32.exe
gnv\$libbz2_64.exe	gnv\$make.exe	gnv\$sed.exe
grep.exe	groups.exe	head.exe
hostid.exe	hostname.exe	id.exe
install.exe	join.exe	kill.exe
lbracket.exe	ld.exe	less.exe
link.exe	ln.exe	locate.exe
logname.exe	ls.exe	m4.exe
make.exe	md5sum.exe	mkbuiltins.exe
mkdir.exe	mkfifo.exe	mknod.exe
mksignames.exe	mksyntax.exe	mktemp.exe
mv.exe	nice.exe	nl.exe
nohup.exe	nproc.exe	numfmt.exe
od.exe	paste.exe	pathchk.exe
pinky.exe	pr.exe	printenv.exe
printf.exe	ptx.exe	pwd.exe
readlink.exe	realpath.exe	recho.exe
regexprops.exe	rm.exe	rmdir.exe
runcon.exe	sdiff.exe	sed.exe
sed_debug.exe	sed_hack.exe	sed_hack_debug.exe
seq.exe	sh.exe	sha1sum.exe
sha224sum.exe	sha256sum.exe	sha384sum.exe
sha512sum.exe	shred.exe	shuf.exe
sleep.exe	sort.exe	split.exe
stat.exe	stdbuf.exe	stty.exe
sum.exe	sync.exe	tac.exe
tail.exe	tar.exe	tee.exe
test.exe	timeout.exe	touch.exe

tr.exe	true.exe	truncate.exe
tsort.exe	tty.exe	uname.exe
unexpand.exe	uniq.exe	unlink.exe
unzip.exe	uptime.exe	users.exe
vdir.exe	vms_make.exe	wc.exe
who.exe	whoami.exe	xargs.exe
xcase.exe	yes.exe	zecho.exe
zip.exe		

The gnu/lib utilities included in this kit are as follows:

GNV_SETUP.COM

The gnu/etc utilities included in this kit are as follows:

bison.hairy
bison.simple

3. Requirements

This kit requires VSI OpenVMS x86-64 Version 9.2-3 or higher. Note that while you probably will not have any problems installing and using this kit on systems running higher versions of the operating system, older versions are unsupported and will likely cause problems.

4. Recommended Reading

Users may find it helpful to refer to the following documentation in order to better understand how to configure and use the GNV software:

- Installing GNV Packages (<https://sourceforge.net/p/gnv/wiki/InstallingGNVPackages/>)
- Niel Rieck's OpenVMS Notes (https://neilrieck.net/docs/openvms_notes_gnv.html)

For more information about using GNU, users should refer to documentation available via the GNU website (<https://www.gnu.org/>), as well as other resources available online.

5. Installing the Kit

The kit is provided as an OpenVMS PCSI kit (VSI-X86VMS-GNV-V0300-2C-1.PCSI \$COMPRESSED) that can be installed by a suitably privileged user using the following command:

```
$ PRODUCT INSTALL GNV
```

The installation will then proceed as follows (output may differ slightly from that shown depending on various factors):

```
The following product has been selected:
  VSI X86VMS GNV V3.0-2C                    Layered Product

Do you want to continue? [YES]

Configuration phase starting ...
```

You will be asked to choose options, if any, for each selected product and for any products that may be installed to satisfy software dependency requirements.

Configuring VSI X86VMS GNV V3.0-2C: GNV for VSI OpenVMS x86-64

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* This product does not have any configuration options.

Execution phase starting ...

The following product will be installed to destination:

VSI X86VMS GNV V3.0-2C DISK\$X86SYS:[VMS\$COMMON.]

Portion done: 0%...10%...20%...30%...40%...50%...60%...70%...80%...90%...100%

The following product has been installed:

VSI X86VMS GNV V3.0-2C Layered Product

VSI X86VMS GNV V3.0-2C: GNV for VSI OpenVMS x86-64

Post-installation tasks are required.

To use GNV, users must execute the following command:

```
$ @SYS$STARTUP:GNV$SETUP.COM
```

6. Known Issues and Limitations

The following known issues and limitations may be resolved in a future release.

Please note that GNV V3.0-2C is a field test version and not all features are complete yet. VSI would welcome information on any bugs that you might find, as well as general feedback regarding how the GNV product might be improved and enhanced.

- The "sed" utility does not currently work with the "-i" flag unless the user has the SYSPRV privilege.
- The AR tool does not currently support the "delete" and "move" options. Using either of these options will return a warning but do nothing.
- The AR tool incorrectly ignores the "extract" and "print" options. Using either of these options will do nothing.