



## Perl 5.6.1 Build Instruction - Sun Solaris on SPARC

**TIVOLI® NETCOOL® PERFORMANCE MANAGER FOR WIRELESS**  
**TIVOLI® NETCOOL® GATEWAY FRAMEWORK**

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**Note:** Before using this information and the product it supports, read the information in Notices on page 27.

This edition applies to Version 4.1 of IBM® Tivoli® Netcool® Performance Manager for Wireless and to all subsequent releases and modifications until otherwise indicated in new editions.

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# 1 About this Documentation

The Tivoli Netcool Gateway Framework requires Perl 5.6.1. This provides the instruction on how to build Perl 5.6.1 for Sun Solaris on SPARC architecture machine.

## 1.1 Audience

The target audience of this document is IBM Tivoli Netcool Performance Manager for Wireless customers. They should be familiar with Perl and IT principles and should also have a good understanding of Solaris.

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**Note:** Performance Manager for Wireless Administrators should not, without prior consultation and agreement from IBM, make any changes to the Index Organized tables or database schema. Changes to the Index Organized tables or database schema may result in corruption of data and failure of the Performance Manager for Wireless System. This applies to all releases of Performance Manager for Wireless using all versions of interfaces.

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## 1.2 Required Skills and Knowledge

This guide assumes you are familiar with the following:

- General IT Principles
- Sun Solaris Operating System
- C Compiler
- Perl Scripting
- Windows operating systems
- Graphical User Interfaces

This guide also assumes that you are familiar with your company's network and with procedures for configuring, monitoring, and solving problems on your network.

## 2 Requirements

### 2.1 System Requirement

The operating system and processor architecture required is listed in the table below.

Vendor	O/S Version	Architecture
Sun	Solaris 9 & 10	SPARC

### 2.2 Software Requirement

The C Compiler required is listed in the table below:

Vendor	Compiler
Sun	Sun Studio 11 C Compiler, version 5.8

Additional Software Components required are:

1. tar
2. gunzip
3. make

## 3 Preparation

Download Perl 5.6.1 source code from <http://www.perl.com/CPAN/src>

Extract the content of the source package using the following command:

```
$ gunzip -dc perl-5.6.1.tar.gz | tar xvf -
```

The directory `perl-5.6.1` will be created with its contents.

Ensure that `make` and `cc` is in the `$PATH` environment.

Remove the `config.sh` and `Policy.sh` from within the `perl-5.6.1` directory if available:

```
$ cd perl-5.6.1  
$ rm -f config.sh Policy.sh
```

Create the installation directories at a desired location, e.g.:

```
$ mkdir -p /usr/local/gways/perl5/5.6.1/bin
```

## 4 Build Instruction

Run Configure within the Perl source directory with the following parameters:

1. set the prefix to use the installation directory created earlier,
2. do not install perl as /usr/bin/perl, and
3. accept all other default parameters.

```
$ sh Configure -Dprefix=/usr/local/gways/perl5/5.6.1 \  
-Uinstallusrbinperl -des
```

A sample of the config.sh produced is in **Appendix A**.

After Configure is completed, run make:

```
$ make
```

The binaries are verified using the following command:

```
$ make test
```

The last two lines of the output should show something similar to the following:

```
All tests successful.  
u=0.17 s=0.37 cu=17.74 cs=9.53 scripts=251 tests=12634
```

Finally, install perl into the target installation directory:

```
$ make install
```

Check the perl configuration summary by running the following command:

```
$ /usr/local/gways/perl5/5.6.1/bin/perl -V
```

A sample of the perl configuration summary is in **Appendix B**.



## Appendix A Sample config.sh

```
#!/bin/sh
#
# This file was produced by running the Configure script. It holds all the
# definitions figured out by Configure. Should you modify one of these values,
# do not forget to propagate your changes by running "Configure -der". You may
# instead choose to run each of the .SH files by yourself, or "Configure -S".
#
# Package name      : perl5
# Source directory  : .
# Configuration time:
# Configured by     : root
# Target system     :

Author=' '
Date='$Date'
Header=' '
Id='$Id'
Locker=' '
Log='$Log'
Mcc='Mcc'
RCSfile='$RCSfile'
Revision='$Revision'
Source=' '
State=' '
_a='.a'
_exe=''
_o='.o'
afs='false'
alignbytes='8'
ansi2knr=''
aphostname='/usr/5bin/hostname'
api_revision='5'
api_subversion='0'
api_version='5'
api_versionstring='5.005'
ar='ar'
archlib='/usr/local/gways/perl5/5.6.1/lib/5.6.1/sun4-solaris'
archlibexp='/usr/local/gways/perl5/5.6.1/lib/5.6.1/sun4-solaris'
archname64=' '
archname='sun4-solaris'
```

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```
archobjs=''
awk='awk'
baserev='5.0'
bash=''
bin='/usr/local/gways/perl5/5.6.1/bin'
bincompat5005='define'
binexp='/usr/local/gways/perl5/5.6.1/bin'
bison='bison'
byacc='byacc'
byteorder='4321'
c='\c'
castflags='0'
cat='cat'
cc='cc'
cccdlflags='-KPIC'
ccdlflags=''
ccflags='-D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64'
ccflags_uselargefiles='-D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64'
ccname='cc'
ccsymbols=''
ccversion=''
cf_by='root'
cf_email='root@unknown.(none)'
cf_time='Mon Mar 17 15:22:24 MYT 2008'
charsize='1'
chgrp=''
chmod=''
chown=''
clocktype='clock_t'
comm='comm'
compress=''
contains='grep'
cp='cp'
cpio=''
cpp='cpp'
cpp_stuff='42'
cppccsymbols=''
cppflags='-D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64'
cpplast='- '
cppminus='- '
cpprun='cc -E'
cppstdin='cc -E'
cppsymbols='_BIG_ENDIAN=1 _FILE_OFFSET_BITS=64 _ILP32=1 _LARGEFILE64_SOURCE=1
_LARGEFILE_SOURCE=1 __STDC__=1 __SVR4=1 sparc=1 __sparc=1 sun=1 __sun=1 unix=1
__unix=1'
crosscompile='undef'
cryptlib=''
csh='csh'
d_Gconvert='gconvert((x),(n),(t),(b))'
d_PRIEldbl='define'
d_PRIFldbl='define'
d_PRIGldbl='define'
```

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---

```
d_PRIXU64='define'
d_PRIId64='define'
d_PRIIdbl='define'
d_PRIfldbl='define'
d_PRIgldbl='define'
d_PRIi64='define'
d_PRIO64='define'
d_PRIu64='define'
d_PRIx64='define'
d_SCNfldbl='define'
d__fwalk='undef'
d_access='define'
d_accessx='undef'
d_alarm='define'
d_archlib='define'
d_atolf='undef'
d_atoll='define'
d_attribut='undef'
d_bcmp='define'
d_bcopy='define'
d_bincompat5005='define'
d_bsd='undef'
d_bsdgetpgrp='undef'
d_bsdsetpgrp='undef'
d_bzero='define'
d_casti32='define'
d_castneg='define'
d_charvspr='undef'
d_chown='define'
d_chroot='define'
d_chsize='undef'
d_closedir='define'
d_const='define'
d_crypt='define'
d_csh='define'
d_cuserid='define'
d_dbl_dig='define'
d_difftime='define'
d_dirnamlen='undef'
d_dLError='define'
d_dlopen='define'
d_dlsymun='undef'
d_dosuid='undef'
d_drand48proto='define'
d_dup2='define'
d_eaccess='undef'
d_endgrent='define'
d_endhent='define'
d_endnrent='define'
d_endpent='define'
d_endpwent='define'
d_endsent='define'
```

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```
d_eofnblk='define'  
d_eunice='undef'  
d_fchmod='define'  
d_fchown='define'  
d_fcntl='define'  
d_fcntl_can_lock='define'  
d_fd_macros='define'  
d_fd_set='define'  
d_fds_bits='define'  
d_fgetpos='define'  
d_flexfnam='define'  
d_flock='undef'  
d_fork='define'  
d_fpathconf='define'  
d_fpos64_t='define'  
d_frexp1='define'  
d_fs_data_s='undef'  
d_fseeko='define'  
d_fsetpos='define'  
d_fstatfs='define'  
d_fstatvfs='define'  
d_fsync='define'  
d_ftello='define'  
d_ftime='undef'  
d_getcwd='define'  
d_getespwnam='undef'  
d_getfsstat='undef'  
d_getgrent='define'  
d_getgrps='define'  
d_gethbyaddr='define'  
d_gethbyname='define'  
d_gethent='define'  
d_gethname='define'  
d_gethostprotos='define'  
d_getlogin='define'  
d_getmnt='undef'  
d_getmnttent='define'  
d_getnbyaddr='define'  
d_getnbyname='define'  
d_getnrent='define'  
d_getnetprotos='define'  
d_getpagsz='define'  
d_getpbyname='define'  
d_getpbynumber='define'  
d_getpent='define'  
d_getpgid='define'  
d_getpgrp2='undef'  
d_getpgrp='define'  
d_getppid='define'  
d_getprior='define'  
d_getproto protos='define'  
d_getprpwnam='undef'
```

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```
d_getpwent='define'
d_getsbyname='define'
d_getsbyport='define'
d_getsent='define'
d_getservprotos='define'
d_getspnam='define'
d_gettimeod='define'
d_gnulibc='undef'
d_grpasswd='define'
d_hasmntopt='define'
d_htonl='define'
d_iconv='define'
d_index='undef'
d_inetaton='undef'
d_int64_t='define'
d_isascii='define'
d_isnan='define'
d_isnanl='undef'
d_killpg='define'
d_lchown='define'
d_ldbl_dig='define'
d_link='define'
d_locconv='define'
d_lockf='define'
d_longdbl='define'
d_longlong='define'
d_lseekproto='define'
d_lstat='define'
d_madvise='define'
d_mblen='define'
d_mbstowcs='define'
d_mbtowc='define'
d_memchr='define'
d_memcmp='define'
d_memcpy='define'
d_memmove='define'
d_memset='define'
d_mkdir='define'
d_mkdtemp='undef'
d_mkfifo='define'
d_mkstemp='define'
d_mkstemps='undef'
d_mktime='define'
d_mmap='define'
d_modfl='define'
d_mprotect='define'
d_msg='define'
d_msg_ctrunc='define'
d_msg_dontroute='define'
d_msg_oob='define'
d_msg_peek='define'
d_msg_proxy='undef'
```

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```
d_msgctl='define'
d_msgget='define'
d_msgrcv='define'
d_msgsnd='define'
d_msync='define'
d_munmap='define'
d_mymalloc='define'
d_nice='define'
d_nv_preserves_uv='define'
d_nv_preserves_uv_bits='32'
d_off64_t='define'
d_old_pthread_create_joinable='undef'
d_oldpthreads='undef'
d_oldsock='undef'
d_open3='define'
d_pathconf='define'
d_pause='define'
d_perl_otherlibdirs='undef'
d_phostname='undef'
d_pipe='define'
d_poll='define'
d_portable='define'
d_pthread_yield='undef'
d_pwage='define'
d_pwchange='undef'
d_pwclass='undef'
d_pwcomment='define'
d_pwexpire='undef'
d_pwgecos='define'
d_pwpasswd='define'
d_pwquota='undef'
d_qgcvt='define'
d_quad='define'
d_readdir='define'
d_readlink='define'
d_rename='define'
d_rewinddir='define'
d_rmdir='define'
d_safebcpy='define'
d_safemcpy='undef'
d_sanemcmp='define'
d_sbrkproto='define'
d_sched_yield='undef'
d_scm_rights='define'
d_seekdir='define'
d_select='define'
d_sem='define'
d_semctl='define'
d_semctl_semids='undef'
d_semctl_semun='define'
d_semget='define'
d_semop='define'
```

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```
d_setegid='define'
d_seteuid='define'
d_setgrent='define'
d_setgrps='define'
d_sethent='define'
d_setlinebuf='define'
d_setlocale='define'
d_setnrent='define'
d_setpent='define'
d_setpgid='define'
d_setpgrp2='undef'
d_setpgrp='define'
d_setprior='define'
d_setproctitle='undef'
d_setpwent='define'
d_setregid='define'
d_setresgid='undef'
d_setresuid='undef'
d_setreuid='define'
d_setrgid='undef'
d_setruid='undef'
d_setsent='define'
d_setsid='define'
d_setvbuf='define'
d_sfio='undef'
d_shm='define'
d_shmat='define'
d_shmatprototype='define'
d_shmctl='define'
d_shmdt='define'
d_shmget='define'
d_sigaction='define'
d_sigsetjmp='define'
d_socket='define'
d_socklen_t='define'
d_sockpair='define'
d_socks5_init='undef'
d_sqrtl='define'
d_statblks='define'
d_statfs_f_flags='undef'
d_statfs_s='define'
d_statvfs='define'
d_stdio_cnt_lval='define'
d_stdio_ptr_lval='define'
d_stdio_ptr_lval_nochange_cnt='define'
d_stdio_ptr_lval_sets_cnt='undef'
d_stdio_stream_array='define'
d_stdio_base='define'
d_stdstdio='define'
d_strchr='define'
d_strcoll='define'
d_strncpy='define'
```

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---

```
d_strerrorm='strerror(e) '
d_strerror='define'
d_strtod='define'
d_strtol='define'
d_strtold='undef'
d_strtoll='define'
d_strtoul='define'
d_strtoull='define'
d_strtouq='undef'
d_strxfrm='define'
d_suidsafe='define'
d_symlink='define'
d_syscall='define'
d_sysconf='define'
d_sysernlst=''
d_syserrlst='define'
d_system='define'
d_tcgetpgrp='define'
d_tcsetpgrp='define'
d_telldir='define'
d_telldirproto='define'
d_time='define'
d_times='define'
d_truncate='define'
d_tzname='define'
d_umask='define'
d_uname='define'
d_union_semun='undef'
d_ustat='define'
d_vendorarch='undef'
d_vendorbin='undef'
d_vendorlib='undef'
d_vfork='undef'
d_void_closedir='undef'
d_voidsig='define'
d_voidtty=''
d_volatile='define'
d_vprintf='define'
d_wait4='define'
d_waitpid='define'
d_wcstombs='define'
d_wctomb='define'
d_xenix='undef'
date='date'
db_hashtype='u_int32_t'
db_prefixtype='size_t'
defvoidused='15'
direntrytype='struct dirent'
dlex='so'
dlsrc='dl_dlopen.xs'
doublesize='8'
drand01='drand48()'
```



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---

```
dynamic_ext='B ByteLoader Data/Dumper Devel/DProf Devel/Peek Fcntl File/Glob IO
IPC/SysV NDBM_File ODBM_File Opcode POSIX SDBM_File Socket Sys/Hostname
Sys/Syslog attrs re'
eagain='EAGAIN'
ebcdic='undef'
echo='echo'
egrep='egrep'
emacs=''
eunicefix=':'
exe_ext=''
expr='expr'
extensions='B ByteLoader Data/Dumper Devel/DProf Devel/Peek Fcntl File/Glob IO
IPC/SysV NDBM_File ODBM_File Opcode POSIX SDBM_File Socket Sys/Hostname
Sys/Syslog attrs re Errno'
fflushNULL='define'
fflushall='undef'
find=''
firstmakefile='makefile'
flex=''
fpossize='8'
fpostype='fpos_t'
freetype='void'
full_ar='/usr/ccs/bin/ar'
full_csh='/usr/5bin/csh'
full_sed='/usr/5bin/sed'
gccosandvers=''
gccversion=''
gidformat='"ld"'
gidsign='-1'
gidsize='4'
gidtype='gid_t'
glibpth='/usr/shlib /usr/lib /usr/lib/386 /lib/386 /usr/ccs/lib /usr/local/lib'
grep='grep'
groupcat='cat /etc/group'
groupstype='gid_t'
gzip='gzip'
h_fcntl='true'
h_sysfile='false'
hint='previous'
hostcat='cat /etc/hosts'
i16size='2'
i16type='short'
i32size='4'
i32type='long'
i64size='8'
i64type='long long'
i8size='1'
i8type='char'
i_arpainet='define'
i_bsdiocntl=''
i_db='undef'
i_dbm='undef'
```

---

---

```
i_dirent='define'
i_dld='undef'
i_dlfcn='define'
i_fcntl='define'
i_float='define'
i_gdbm='undef'
i_grp='define'
i_iconv='define'
i_ieeeep='define'
i_inttypes='define'
i_libutil='undef'
i_limits='define'
i_locale='define'
i_machcthr='undef'
i_malloc='define'
i_math='define'
i_memory='undef'
i_mntent='undef'
i_ndbm='define'
i_netdb='define'
i_neterano='undef'
i_netinettcp='define'
i_niin='define'
i_poll='define'
i_prot='undef'
i_pthread='define'
i_pwd='define'
i_rpcsvcdbm='define'
i_sfio='undef'
i_sgtty='undef'
i_shadow='define'
i_socks='undef'
i_stdarg='define'
i_stddef='define'
i_stdlib='define'
i_string='define'
i_sunmath='define'
i_sysaccess='undef'
i_sysdir='undef'
i_sysfile='undef'
i_sysfilio='define'
i_sysin='undef'
i_sysioctl='define'
i_syslog='define'
i_sysmman='define'
i_sysmode='define'
i_sysmount='define'
i_sysndir='undef'
i_sysparam='define'
i_sysresrc='define'
i_syssecrt='undef'
i_syssselct='define'
```

---

---

```
i_syssockio=''
i_sysstat='define'
i_sysstatfs='define'
i_sysstatvfs='define'
i_systime='define'
i_systimek='undef'
i_systimes='define'
i_systypes='define'
i_sysuio='define'
i_sysun='define'
i_sysutsname='define'
i_sysvfs='define'
i_syswait='define'
i_termio='undef'
i_termios='define'
i_time='undef'
i_unistd='define'
i_ustat='define'
i_utime='define'
i_values='define'
i_varargs='undef'
i_varhdr='stdarg.h'
i_vfork='undef'
ignore_versioned_solibs=''
inc_version_list=' '
inc_version_list_init='0'
incpath=''
inews=''
installarchlib='/usr/local/gways/perl5/5.6.1/lib/5.6.1/sun4-solaris'
installbin='/usr/local/gways/perl5/5.6.1/bin'
installman1dir='/usr/local/gways/perl5/5.6.1/man/man1'
installman3dir='/usr/local/gways/perl5/5.6.1/man/man3'
installprefix='/usr/local/gways/perl5/5.6.1'
installprefixexp='/usr/local/gways/perl5/5.6.1'
installprivlib='/usr/local/gways/perl5/5.6.1/lib/5.6.1'
installscript='/usr/local/gways/perl5/5.6.1/bin'
installsitearch='/usr/local/gways/perl5/5.6.1/lib/site_perl/5.6.1/sun4-solaris'
installsitebin='/usr/local/gways/perl5/5.6.1/bin'
installsitelib='/usr/local/gways/perl5/5.6.1/lib/site_perl/5.6.1'
installstyle='lib'
installusrbinperl='undef'
installvendorarch=''
installvendorbin=''
installvendorlib=''
intsize='4'
issymlink='test -h'
ivdformat='"ld"'
ivsize='4'
ivtype='long'
known_extensions='B ByteLoader DB_File Data/Dumper Devel/DProf Devel/Peek Fcntl
File/Glob GDBM_File IO IPC/SysV NDBM_File ODBM_File Opcode POSIX SDBM_File Socket
Sys/Hostname Sys/Syslog Thread attrs re'
```

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---

```
ksh=''
ld='cc'
lddlflags='-G'
ldflags=' '
ldflags_uselargefiles=''
ldlibpthname='LD_LIBRARY_PATH'
less='less'
lib_ext='.a'
libc='/lib/libc.so'
libperl='libperl.a'
libpth='/usr/lib /usr/ccs/lib'
libs='-lsocket -lnsl -ldl -lm -lc'
libsdirs=''
libsfiles=''
libsfound=''
libspath=' /usr/lib /usr/ccs/lib'
libswanted='sfio socket bind inet nsl nm ndbm gdbm dbm db dl dld sun m c cposix
posix ndir dir bsd BSD PW x iconv util '
libswanted_uselargefiles=''
line=''
lint=''
lkflags=''
ln='ln'
lns='/usr/5bin/ln -s'
locincpth='/usr/local/include /opt/local/include /usr/gnu/include
/opt/gnu/include /usr/GNU/include /opt/GNU/include'
loclibpth='/usr/local/lib /opt/local/lib /usr/gnu/lib /opt/gnu/lib /usr/GNU/lib
/opt/GNU/lib'
longdblsize='16'
longlongsize='8'
longsize='4'
lp=''
lpr=''
ls='ls'
lseeksize='8'
lseektype='off_t'
mail=''
mailx=''
make='make'
make_set_make='#'
mallocobj='malloc.o'
malloccsrc='malloc.c'
malloctype='void *'
man1dir='/usr/local/gways/perl5/5.6.1/man/man1'
man1direxp='/usr/local/gways/perl5/5.6.1/man/man1'
man1ext='1'
man3dir='/usr/local/gways/perl5/5.6.1/man/man3'
man3direxp='/usr/local/gways/perl5/5.6.1/man/man3'
man3ext='3'
mips_type=''
mkdir='mkdir'
mmatype='caddr_t'
```

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---

---

---

```
modetype='mode_t'
more='more'
multiarch='undef'
mv=''
myarchname='sun4-solaris'
mydomain='.kl.apac.vallent.com'
myhostname='unknown'
myuname='sunos unknown 5.9 generic_122300-06 sun4u sparc sunw,sun-fire-280r '
n=''
netdb_hlen_type='int'
netdb_host_type='const char *'
netdb_name_type='const char *'
netdb_net_type='in_addr_t'
nm='nm'
nm_opt='-p'
nm_so_opt=''
nonxs_ext='Errno'
nroff='nroff'
nvEUformat='"E"'
nvFUformat='"F"'
nvGUformat='"G"'
nveformat='"e"'
nvfformat='"f"'
nvgformat='"g"'
nvsize='8'
nvtype='double'
o_nonblock='O_NONBLOCK'
obj_ext='.o'
old_pthread_create_joinable=''
optimize='-O'
orderlib='false'
osname='solaris'
osvers='2.9'
otherlibdirs=''
package='perl5'
pager='/usr/5bin/less'
passcat='cat /etc/passwd'
patchlevel='6'
path_sep=':'
perl5='/usr/5bin/perl'
perl=''
perladmin='root@unknown.(none)'
perllibs='-lsocket -lnsl -ldl -lm -lc'
perlpath='/usr/local/gways/perl5/5.6.1/bin/perl'
pg='pg'
phostname='hostname'
pidtype='pid_t'
plibpth=''
pm_apiversion='5.005'
pmake=''
pr=''
prefix='/usr/local/gways/perl5/5.6.1'
```

---

---

---



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```

prefixexp='/usr/local/gways/perl5/5.6.1'
privlib='/usr/local/gways/perl5/5.6.1/lib/5.6.1'
privlibexp='/usr/local/gways/perl5/5.6.1/lib/5.6.1'
prototype='define'
ptrsize='4'
quadkind='3'
quadtype='long long'
randbits='48'
randfunc='drand48'
randseedtype='long'
ranlib=':'
rd_nodata='-1'
revision='5'
rm='rm'
rmail=''
runnm='true'
sPRIEUldbl='"LE"'
sPRIFUldbl='"LF"'
sPRIGUldbl='"LG"'
sPRIXU64='"l1X"'
sPRId64='"l1d"'
sPRIeldbl='"Le"'
sPRIfldbl='"Lf"'
sPRIglldbl='"Lg"'
sPRIi64='"l1i"'
sPRIo64='"l1o"'
sPRIu64='"l1u"'
sPRIx64='"l1x"'
sSCNfldbl='"Lf"'
sched_yield='undef'
scriptdir='/usr/local/gways/perl5/5.6.1/bin'
scriptdirexp='/usr/local/gways/perl5/5.6.1/bin'
sed='sed'
seedfunc='srand48'
selectminbits='32'
selecttype='fd_set *'
sendmail=''
sh='/bin/sh'
shar=''
sharpbang='#!'
shmattype='void *'
shortsize='2'
shrpenv=''
shsharp='true'
sig_count='47'
sig_name='ZERO HUP INT QUIT ILL TRAP ABRT EMT FPE KILL BUS SEGV SYS PIPE ALRM
TERM USR1 USR2 CHLD PWR WINCH URG IO STOP TSTP CONT TTIN TTOU VTALRM PROF XCPU
XFSZ WAITING LWP FREEZE THAW CANCEL LOST XRES RTMIN NUM40 NUM41 NUM42 NUM43 NUM44
NUM45 RTMAX IOT CLD POLL '
sig_name_init='"ZERO", "HUP", "INT", "QUIT", "ILL", "TRAP", "ABRT", "EMT", "FPE",
"KILL", "BUS", "SEGV", "SYS", "PIPE", "ALRM", "TERM", "USR1", "USR2", "CHLD",
"PWR", "WINCH", "URG", "IO", "STOP", "TSTP", "CONT", "TTIN", "TTOU", "VTALRM",

```

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```

"PROF", "XCPU", "XFSZ", "WAITING", "LWP", "FREEZE", "THAW", "CANCEL", "LOST",
"XRES", "RTMIN", "NUM40", "NUM41", "NUM42", "NUM43", "NUM44", "NUM45", "RTMAX",
"IOT", "CLD", "POLL", 0'
sig_num='0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 6 18 22 '
sig_num_init='0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18,
19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38,
39, 40, 41, 42, 43, 44, 45, 46, 6, 18, 22, 0'
signal_t='void'
sitearch='/usr/local/gways/perl5/5.6.1/lib/site_perl/5.6.1/sun4-solaris'
sitearchexp='/usr/local/gways/perl5/5.6.1/lib/site_perl/5.6.1/sun4-solaris'
sitebin='/usr/local/gways/perl5/5.6.1/bin'
sitebinexp='/usr/local/gways/perl5/5.6.1/bin'
sitelib='/usr/local/gways/perl5/5.6.1/lib/site_perl/5.6.1'
sitelib_stem='/usr/local/gways/perl5/5.6.1/lib/site_perl'
sitelibexp='/usr/local/gways/perl5/5.6.1/lib/site_perl/5.6.1'
siteprefix='/usr/local/gways/perl5/5.6.1'
siteprefixexp='/usr/local/gways/perl5/5.6.1'
size_size='4'
size_type='size_t'
sleep=''
smail=''
so='so'
socket_hdr=''
socketlib=''
socksize_type='int'
sort='sort'
spackage='Perl5'
spitshell='cat'
src='.'
ssize_type='ssize_t'
startperl='#!/usr/local/gways/perl5/5.6.1/bin/perl'
startsh='#!/bin/sh'
static_ext=' '
stdchar='unsigned char'
stdio_base='((fp)->_base)'
stdio_bufsiz='((fp)->_cnt + (fp)->_ptr - (fp)->_base)'
stdio_cnt='((fp)->_cnt)'
stdio_filbuf=''
stdio_ptr='((fp)->_ptr)'
stdio_stream_array='__iob'
strings='/usr/include/string.h'
submit=''
subversion='1'
sysman='/usr/man/man1'
tail=''
tar=''
tbl=''
tee=''
test='test'
timeincl='/usr/include/sys/time.h'
timetype='time_t'

```

---



---

```
touch='touch'
tr='tr'
trnl='\n'
troff=''
u16size='2'
u16type='unsigned short'
u32size='4'
u32type='unsigned long'
u64size='8'
u64type='unsigned long long'
u8size='1'
u8type='unsigned char'
uidformat='"ld"'
uidsign='-1'
uidsize='4'
uidtype='uid_t'
uname='uname'
uniq='uniq'
uquadtype='unsigned long long'
use5005threads='undef'
use64bitall='undef'
use64bitint='undef'
usedl='define'
useithreads='undef'
uselargefiles='define'
uselongdouble='undef'
usemorebits='undef'
usemultiplicity='undef'
usemymalloc='y'
usenm='true'
useopcode='true'
useperlio='undef'
useposix='true'
usesfio='false'
useshrplib='false'
usesocks='undef'
usethreads='undef'
usevendorprefix='undef'
usevfork='false'
usrinc='/usr/include'
uname=''
uvXUformat='"lX"'
uvoformat='"lo"'
uvsize='4'
uvtype='unsigned long'
uvuformat='"lu"'
uvxformat='"lx"'
vendorarch=''
vendorarchexp=''
vendorbin=''
vendorbinexp=''
vendorlib=''
```



```
vendorlib_stem=''
vendorlibexp=''
vendorprefix=''
vendorprefixexp=''
version='5.6.1'
versiononly='undef'
vi=''
voidflags='15'
xlibpth='/usr/lib/386 /lib/386'
xs_apiversion='5.005'
yacc='yacc'
yaccflags=''
zcat=''
zip='zip'
# Configure command line arguments.
config_arg0='Configure'
config_args='-Dprefix=/usr/local/gways/perl5/5.6.1 -Uinstallusrbinperl -des'
config_argc=3
config_arg1='-Dprefix=/usr/local/gways/perl5/5.6.1'
config_arg2='-Uinstallusrbinperl'
config_arg3='-des'
PERL_REVISION=5
PERL_VERSION=6
PERL_SUBVERSION=1
PERL_API_REVISION=5
PERL_API_VERSION=5
PERL_API_SUBVERSION=0
CONFIGDOTSH=true
```

## Appendix B Perl Configuration Summary

Summary of my perl5 (revision 5.0 version 6 subversion 1) configuration:

Platform:

```
osname=solaris, osvers=2.9, archname=sun4-solaris
uname='sunos unknown 5.9 generic_122300-06 sun4u sparc sunw,sun-fire-280r '
config_args='-Dprefix=/usr/local/gways/perl5/5.6.1 -Uinstallusrbinperl -des'
hint=previous, useposix=true, d_sigaction=define
usethreads=undef use5005threads=undef useithreads=undef usemultiplicity=undef
useperlio=undef d_sfio=undef uselargefiles=define usesocks=undef
use64bitint=undef use64bitall=undef uselongdouble=undef
```

Compiler:

```
cc='cc', ccflags ='-D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64',
optimize='-O',
cppflags='-D_LARGEFILE_SOURCE -D_FILE_OFFSET_BITS=64'
ccversion='', gccversion='', gccosandvers=''
intsize=4, longsize=4, ptrsize=4, doublesize=8, byteorder=4321
d_longlong=define, longlongsize=8, d_longdbl=define, longdblsize=16
ivtype='long', ivsize=4, nvtype='double', nvsize=8, Off_t='off_t',
lseeksize=8
```

```
alignbytes=8, usemymalloc=y, prototype=define
```

Linker and Libraries:

```
ld='cc', ldflags =''
libpth=/usr/lib /usr/ccs/lib
libs=-lsocket -lnsl -ldl -lm -lc
perllibs=-lsocket -lnsl -ldl -lm -lc
libc=/lib/libc.so, so=so, useshrplib=false, libperl=libperl.a
```

Dynamic Linking:

```
dlsrcl=dl_dlopen.xs, dlextr=so, d_dlsymun=undef, ccdlflags=''
cccdlflags='-KPIC', lddlflags='-G'
```

Characteristics of this binary (from libperl):

Compile-time options: USE\_LARGE\_FILES

Built under solaris

Compiled at Mar 17 2008 15:31:01

@INC:

```
/usr/local/gways/perl5/5.6.1/lib/5.6.1/sun4-solaris
/usr/local/gways/perl5/5.6.1/lib/5.6.1
/usr/local/gways/perl5/5.6.1/lib/site_perl/5.6.1/sun4-solaris
/usr/local/gways/perl5/5.6.1/lib/site_perl/5.6.1
/usr/local/gways/perl5/5.6.1/lib/site_perl
```

## Appendix C Notices and Trademarks

This appendix contains the following:

- Notices
- Trademarks

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