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FUNDAMENTOS DE REDES ESCUELA DE INGENIERÍA DE SISTEMAS Y COMPUTACIÓN

SANTIAGO DE CALI NOVIEMBRE DE 2012

1) INSTALANDO SIAGE

```
[root@cali5 siege-2.72]# ./configure
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
checking for gawk ... gawk
checking whether make sets $(MAKE)... yes
checking build system type... x86_64-unknown-linux-gnu
checking host system type... x86 64-unknown-linux-gnu
checking for style of include used by make... GNU
checking for gcc... gcc
checking for C compiler default output file name... a.out
checking whether the C compiler works... yes
checking whether we are cross compiling... no
checking for suffix of executables...
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ANSI C... none needed
checking dependency style of gcc... none
checking how to run the C preprocessor... gcc -E
checking for egrep... grep -E
checking for AIX... no
checking for gcc... (cached) gcc
checking whether we are using the GNU C compiler... (cached) yes
checking whether gcc accepts -g... (cached) yes
checking for gcc option to accept ANSI C... (cached) none needed
checking dependency style of gcc... (cached) none
checking for a sed that does not truncate output... /bin/sed
checking for ld used by gcc... /usr/bin/ld
checking if the linker (/usr/bin/ld) is GNU ld... yes
checking for /usr/bin/ld option to reload object files... -r
checking for BSD-compatible nm... /usr/bin/nm -B
checking whether ln -s works... yes
checking how to recognise dependent libraries... pass all
checking for ANSI C header files... yes
checking for sys/types.h... yes
checking for sys/stat.h... yes
checking for stdlib.h... yes
checking for string.h... yes
checking for memory.h... yes
checking for strings.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
checking for unistd.h... yes
checking dlfcn.h usability... yes
checking dlfcn.h presence... yes
checking for dlfcn.h... yes
checking for g++... g++
checking whether we are using the GNU C++ compiler... yes
checking whether g++ accepts -g... yes
checking dependency style of g++... none
checking how to run the C++ preprocessor... g++ -E
checking for g77... no
checking for f77... no
checking for xlf... no
checking for frt... no
checking for pgf77... no
checking for fort77... no
checking for fl32... no
checking for af77... no
checking for f90... no
```

```
make[3]: se sale del directorio `/var/www/html/prueba/siege-2.72/lib'
make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/lib'
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/lib'
Making install in src
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/src'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/src'
test -z "/usr/local/bin" || mkdir -p -- "/usr/local/bin"
   /bin/sh ../libtool --mode=install /usr/bin/install -c 'siege' '/usr/local/bin/siege'
 /usr/bin/install -c siege /usr/local/bin/siege
make[2]: No se hace nada para `install-data-am'.
make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/src'
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/src'
Making install in utils
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/utils'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/utils'
make install-exec-hook
 make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/utils'
 bin/sh ../utils/mkinstalldirs /usr/local/bin
 /bin/sh ../libtool --mode=install /usr/bin/install -c bombardment /usr/local/bin/bombardment
  usr/bin/install -c bombardment /usr/local/bin/bombardment
  /bin/sh ../libtool --mode=install /usr/bin/install -c siege2csv.pl /usr/local/bin/siege2csv.pl
  usr/bin/install -c siege2csv.pl /usr/local/bin/siege2csv.pl
 /bin/sh ../libtool --mode=install /usr/bin/install -c siege.config /usr/local/bin/siege.config
 usr/bin/install -c siege.config /usr/local/bin/siege.config
 make[3]: se sale del directorio `/var/www/html/prueba/siege-2.72/utils'
 make[2]: No se hace nada para `install-data-am'.
 make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/utils'
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/utils'
 Making install in doc
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/doc'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/doc'
         install-exec-hook
 make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/doc'
make[3]: se ingresa al directorio '/var/www/html/prueba/siege-2.72/doc'
make[3]: se sale del directorio '/var/www/html/prueba/siege-2.72/doc'
test -z "/usr/local/man/man!" || mkdir -p -- "/usr/local/man/man!"
   /usr/bin/install -c -m 644 './siege.1' '/usr/local/man/manl/siege.1'
   /usr/bin/install -c -m 644 './siege.config.1' '/usr/local/man/manl/bombardment.1'
   /usr/bin/install -c -m 644 './binderdment.1' '/usr/local/man/manl/siege.config.1'
   /usr/bin/install -c -m 644 './siege2csv.1' '/usr/local/man/manl/siege2csv.1'
test -z "/usr/local/man/man5" || mkdir -p -- "/usr/local/man/man5"
   /usr/bin/install -c -m 644 './urls_txt.5' '/usr/local/man/man5/urls_txt.5'
test -z "/usr/local/man/man7" || mkdir -p -- "/usr/local/man/man7"
/usr/bin/install -c -m 644 './uris txtt.5' '/usr/local/man/man5/uris_txt.5'
test -z "/usr/local/man/man7" || mkdir -p -- "/usr/local/man/man7"
/usr/bin/install -c -m 644 './layingsiege.7' '/usr/local/man/man7/layingsiege.7'
make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/doc'
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/doc'
Making install in html
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/html'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/html'
make install-exec-hook
make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/html'
HTML pages not installed
make[3]: se sale del directorio `/var/www/html/prueba/siege-2.72/html'
make[2]: No se hace nada para `install-data-am'.
make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/html'
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/html'
real
              0m0.130s
              0m0.060s
```

```
[root@cali5 siege-2.72]# time make
Making all in .
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72'
make[1]: No se hace nada para `all-am'
 make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72'
Making all in include
 make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/include'
 make all-recursive
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/include'
Making all in joedog
make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/include/joedog'
make[3]: No se hace nada para `all'.
make[3]: se sale del directorio `/var/www/html/prueba/siege-2.72/include/joedog'
make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/include
make[3]: se sale del directorio `/var/www/html/prueba/siege-2.72/include'
make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/include'
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/include'
 Making all in lib
 make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/lib'
 Making all in joedog
 make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/lib/joedog'
 bin/sh ../../libtool --tag=CC --mode=compile gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -W
 v.lo memory.c
mkdir .libs
gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c memory.c -fPIC -DPIC -o .libs/megcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c memory.c -o memory.o >/dev/null 2/bin/sh ../../libtool --tag=CC --mode=compile gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -W
 v.lo notify.c
 gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c notify.c -fPIC -DPIC -o .libs/nc
gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c notify.c -o notify.o >/dev/null 2
/bin/sh ../../libtool --tag=CC --mode=compile gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -W
 gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c perl.c -fPIC -DPIC -o .libs/perl
gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c perl.c -o perl.o >/dev/null 2>&1
 bin/sh ../../libtool --tag=CC --mode=compile gcc -DHAVE_CONFIG_H -I. -I. -I. ./../include -I/usr/include/openssl -I/usr/include -W -W
lo util.c
gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c util.c -fPIC -DPIC -o .libs/utilutil.c: In function 'substring':
util.c:50: warning: value computed is not used
 util.c:51: warning: value computed is not used
gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c util.c -o util.o >/dev/null 2>&1
/bin/sh ../../libtool --tag=CC --mode=compile gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -W
 tf.lo snprintf.c
 gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c snprintf.c -fPIC -DPIC -o .libs/
gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c snprintf.c -o snprintf.o >/dev/nu/bin/sh ../../libtool --tag=CC --mode=compile gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -W
 loc.lo stralloc.c
 gcc -DHAVE_CONFIG H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c stralloc.c -fPIC -DPIC -o .libs/gcc -DHAVE_CONFIG_H -I. -I. -I../../include -I/usr/include/openssl -I/usr/include -W -Wall -g -O2 -c stralloc.c -o stralloc.o >/dev/nu
 /bin/sh ../../libtool --tag=CC --mode=link gcc -W -Wall -g -02 -o libjoedog.la -version-info 1:0:1 memory.lo notify.lo perl.lo util.
c.lo
libtool: link: warning: `-wersion-info/-version-number' is ignored for convenience libraries ar cru .libs/libjoedog.a .libs/memory.o .libs/notify.o .libs/perl.o .libs/util.o .libs/snprintf.o .libs/stralloc.o
ranlib .libs/libjoedog.a
creating libjoedog.la
 (cd .libs && rm -f libjoedog.la && ln -s ../libjoedog.la libjoedog.la)
make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/lib/joedog'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/lib
 nake[2]: No se hace nada para `all-am'.
  ake[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/lib'
```

checking for openssl/e_os.h... no checking openssl/e_os2.h usability... yes checking openssl/e_os2.h presence... yes

```
checking for openssl/e_os2.h... yes
checking for an ANSI C-conforming const... yes
checking for size_t... yes
checking whether time.h and sys/time.h may both be included... yes checking return type of signal handlers... void
checking for working alloca.h... yes
checking for alloca... yes
checking for strchr... yes
checking for memcpy... yes
checking for strncpy... yes
checking for strlen... yes
checking for strncasecmp...
checking for strncmp... yes
checking for socket... yes
checking for gethostbyname... yes
checking for strdup... yes
checking for rand_r... yes
checking for localtime_r... yes
checking for getipnodebyname... no
checking for freehostent... no
checking for getopt_long... yes
checking for socket in -lsocket... no
checking for pthread_attr_init in -lpthread... yes
configure: creating ./config.status
 config.status: creating src/Makefile
 config.status: creating doc/Makefile
 config.status: creating html/Makefile
 config.status: creating lib/Makefile
 onfig.status: creating lib/joedog/Makefile
 onfig.status: creating include/Makefile
 onfig.status: creating include/joedog/Makefile
 onfig.status: creating utils/Makefile
 config.status: creating include/config.h
 onfig.status: executing depfiles commands
 onfig.status: executing default-1 commands
 config.status: executing default-2 commands
 config.status: executing default-3 commands
 config.status: executing default-4 commands
 config.status: executing default-5 commands
 config.status: executing default-6 commands
Configuration is complete
Run the following commands to complete the installation:
  make install
To upgrade an old siegerc file (optional):
 mv ~/.siegerc.new ~/.siegerc
For complete documentation:
[root@cali5 prueba]# wget http://www.joedog.org/pub/siege/siege-latest.tar.gz
 --2012-11-30 21:46:54-- http://www.joedog.org/pub/siege/siege-latest.tar.gz
Resolviendo www.joedog.org... 69.55.236.229
Connecting to www.joedog.org|69.55.236.229|:80... conectado.
Petición HTTP enviada, esperando respuesta... 200 OK
Longitud: 486018 (475K) [application/x-gzip]
Saving to: 'siege-latest.tar.gz'
```

2012-11-30 21:47:00 (211 KB/s) - `siege-latest.tar.gz' saved [486018/486018]

configure COPYING

[root@cali5 prueba]# tar xf siege-latest.tar.gz

acinclude.m4 acspecific.m4 ChangeLog configure.in

[root@cali5 prueba] # 1s

aclocal.m4

[root@cali5 prueba]# cd siege-2.72/ [root@cali5 siege-2.72]# 1s

AUTHORS

README.https

README.solar:

Makefile.am NEWS

MACHINES Makefile.in README

install-sh

KNOWNBUGS

```
[root@cali5 siege-2.72]# time make install
Making install in .
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72'
make[2]: No se hace nada para `install-exec-am'.
make[2]: No se hace nada para `install-data-am'.
 make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72'
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72'
 Making install in include
 make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/include'
Making install in joedog
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/include/joedog'
make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/include/joedog'
make[3]: No se hace nada para `install-exec-am'.
make[3]: No se hace nada para `install-data-am'.
make[3]: se sale del directorio `/var/www/html/prueba/siege-2.72/include/joedog'
make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/include/joedog'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/include'
make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/include'
make[3]: No se hace nada para `install-exec-am'.
make[3]: No se hace nada para `install-data-am'.
make[3]: se sale del directorio '/var/www/html/prueba/siege-2.72/include'
make[2]: se sale del directorio '/var/www/html/prueba/siege-2.72/include'
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/include'
Making install in lib
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/lib'
Making install in joedog
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/lib/joedog'
make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/lib/joedog'
make[3]: No se hace nada para `install-exec-am'.
make[3]: No se hace nada para `install-data-am'.
make[3]: se sale del directorio `/var/www/html/prueba/siege-2.72/lib/joedog'
make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/lib/joedog'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/lib'
make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/lib'
make[3]: No se hace nada para `install-exec-am'.
make[3]: No se hace nada para `install-data-am'.
make[3]: se sale del directorio '/var/www/html/prueba/siege-2.72/lib'
make[2]: se sale del directorio '/var/www/html/prueba/siege-2.72/lib'
make[1]: se sale del directorio '/var/www/html/prueba/siege-2.72/lib'
 Making install in src
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/src'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/src'
test -z "/usr/local/bin" || mkdir -p -- "/usr/local/bin"
   /bin/sh ../libtool --mode=install /usr/bin/install -c 'siege' '/usr/local/bin/siege'
/usr/bin/install -c siege /usr/local/bin/siege
make[2]: No se hace nada para `install-data-am'.
make[2]: se sale del directorio `/var/www/html/prueba/siege-2.72/src'
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/src'
Making install in utils
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/utils'
make[2]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/utils'
 make install-exec-hook
 make[3]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/utils'
  /bin/sh ../libtool --mode=install /usr/bin/install -c bombardment /usr/local/bin/bombardment
 usr/bin/install -c bombardment /usr/local/bin/bombardment
  /bin/sh ../libtool --mode=install /usr/bin/install -c siege2csv.pl /usr/local/bin/siege2csv.pl
  usr/bin/install -c siege2csv.pl /usr/local/bin/siege2csv.pl
```

```
-W -Wall -DOPENSSL NO KRB5 -g -02 -c eval.c
 cc -DHAVE_CONFIG_H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D REENTRANT -D POSI
 -W -Wall -DOPENSSL_NO_KRB5 -g -O2 -c getopt.c
gcc -DHAVE_CONFIG H -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D REENTRANT -D POSI
 -W -Wall -DOPENSSL_NO_KRB5 -g -02 -c getopt1.c
gcc -DHAVE_CONFIG H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D_REENTRANT -D_POSI
 -W -Wall -DOPENSSL_NO_KRB5 -g -02 -c handler.c
gcc -DHAVE_CONFIG_H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D_REENTRANT -D_POSI
 -W -Wall -DOPENSSL NO KRB5 -g -02 -c hash.c
gcc -DHAVE_CONFIG_H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D_REENTRANT -D_POSI
 -W -Wall -DOPENSSL_NO_KRB5 -g -02 -c http.c
gcc -DHAVE_CONFIG_H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D_REENTRANT -D_POSI
-W -Wall -DOPENSSL NO KRB5 -g -02 -c init.c
gcc -DHAVE_CONFIG_H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D_REENTRANT -D_POSI
-W -Wall -DOPENSSL_NO_KRB5 -g -02 -c load.c
gcc -DHAVE_CONFIG_H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D_REENTRANT -D_POSI
GCC -DHAVE_CONFIG H -1. -1. -1../include -1/usr/include/openss1 -1/usr/include/openss1 -1/usr/include/openss1 -1/usr/include/openss1 -1/usr/include/openss1 -1/usr/include -D_REENTRANT -D_POS1
-W -Wall -DOPENSSL_NO_KRB5 -g -02 -c main.c

GCC -DHAVE_CONFIG H -I. -I. -I../include -I/usr/include/openss1 -I/usr/include/openss1 -I/usr/include/openss1 -I/usr/include/openss1 -I/usr/include -D_REENTRANT -D_POS1
-W -Wall -DOPENSSL_NO_KRB5 -g -02 -c md5.c

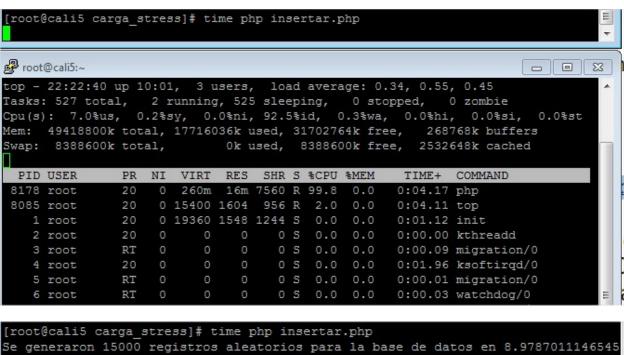
GCC -DHAVE_CONFIG H -I. -I. -I../include -I/usr/include/openss1 -I/usr/include/openss1 -I/usr/include/openss1 -I/usr/include -D_REENTRANT -D_POS1
-W -Wall -DOPENSSL_NO_KRB5 -g -02 -c md5.c

GCC -DHAVE_CONFIG H -I. -I. -I../include -I/usr/include/openss1 -I/usr/include/openss1 -I/usr/include -D_REENTRANT -D_POS1
 -W -Wall -DOPENSSL_NO_KRB5 -g -02 -c sock.c
gcc -DHAVE_CONFIG_H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D_REENTRANT -D_POSI
-W -Wall -DOPENSSL NO KRB5 -g -02 -c ssl.c
ssl.c: En la función âSSL_initializeâ:
ssl.c:89: aviso: la asignaciãon descarta los calificadores del tipo del destino del puntero
gcc -DHAVE CONFIG H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D REENTRANT -D POSI
 -W -Wall -DOPENSSL_NO_KRB5 -g -O2 -c timer.c
gcc -DHAVE_CONFIG_H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D_REENTRANT -D_POSI
-W -Wall -DOPENSSL_NO_KRB5 -g -O2 -c url.c
gcc -DHAVE CONFIG H -I. -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D REENTRANT -D POSI
 -W -Wall -DOPENSSL_NO_KRB5 -g -02 -c util.c
gcc -DHAVE_CONFIG H -I. -I../include -I/usr/include/openssl -I/usr/include -I/usr/include/openssl -I/usr/include -D_REENTRANT -D_POSI
 -W -Wall -DOPENSSL_NO_KRB5 -g -02 -c version.c
/bin/sh ../libtool --tag=CC --mode=link gcc -D_REENTRANT -D_POSIX_PTHREAD_SEMANTICS -W -Wall -DOPENSSL_NO_KRB5 -g -O2 -L/usr/lib -lpthrea
o autho base64.0 cliento cookieo cfg.o crewo datao dateo evalo getopto getoptlo handlero hasho http.o inito loado logo mair.
o timer.o url.o util.o version.o ../lib/joedog/libjoedog.la -ldl -lssl -lcrypto.
gcc -D_REENTRANT -D_POSIX_PTHREAD_SEMANTICS -W -Wall -DOPENSSL_NO_KRB5 -g -02 -o siege array.o auth.o base64.o client.o cookie.o cfg.o cre
val.o getopt.o getopt1.o handler.o hash.o http.o init.o load.o log.o main.o md5.o sock.o ssl.o timer.o url.o util.o version.o -L/usr/lib
edog/.libs/libjoedog.a -ldl -lssl -lcrypto
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/src'
Making all in utils
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/utils'
make[1]: No se hace nada para `all'.
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/utils'
Making all in doc
make[1]: No se hace nada para `all'.
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/doc'
Making all in html
make[1]: se ingresa al directorio `/var/www/html/prueba/siege-2.72/html'
make[1]: No se hace nada para `all'.
make[1]: se sale del directorio `/var/www/html/prueba/siege-2.72/html'
real
          0m4.752s
user
          0m2.954s
          0m0.513s
```



2)PRUEBAS

Aquí vemos que la generación de los 15mil registros aleatorio tarda 8.979 segundos, e insertarlos en un insert multiple 1.087 segundos, el tiempo total es 10.124 segundos, cuando se ejecuta, vemos que el proceso php usa el 100% de la CPU(esto corresponde a un núcleo) y usa 16MB de memoria reservada.



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Realizo la prueba con 3 peticiones con intervalo de 1 segundo, simulando 1 usuario, solo para determinar cuando tarda ejecutándose, aquí la diferencia con la anterior prueba aparte del número de peticiones, es que la anterior es ejecutando directamente el php, y aquí es a través de Apache conectado a PHP usando fast CGI con PHP-FPM que es la última tecnología que han producido los desarrolladores de PHP para acoplar de la mejor forma a PHP con Apache, poniéndolo en un espacio de memoria reservado, que es seguro en entornos multithread, pudiendo estar apache configurado para usar threads (MPM - Worker) sin que esto implique un riesgo de problemas de memoria en PHP.

```
SIEGE 2.72
 * Preparing 1 concurrent users for battle.
The server is now under siege..
                                   3 hits
Transactions:
Availability:
                             100.00 %
                              29.15 secs
Elapsed time:
Data transferred:
                                0.00 MB
Response time:
                                9.38 secs
                               0.10 trans/sec
Transaction rate:
Throughput:
                               0.00 MB/sec
                                0.97
Concurrency:
Successful transactions:
Failed transactions:
                                9.71
Longest transaction:
                                9.21
Shortest transaction:
```

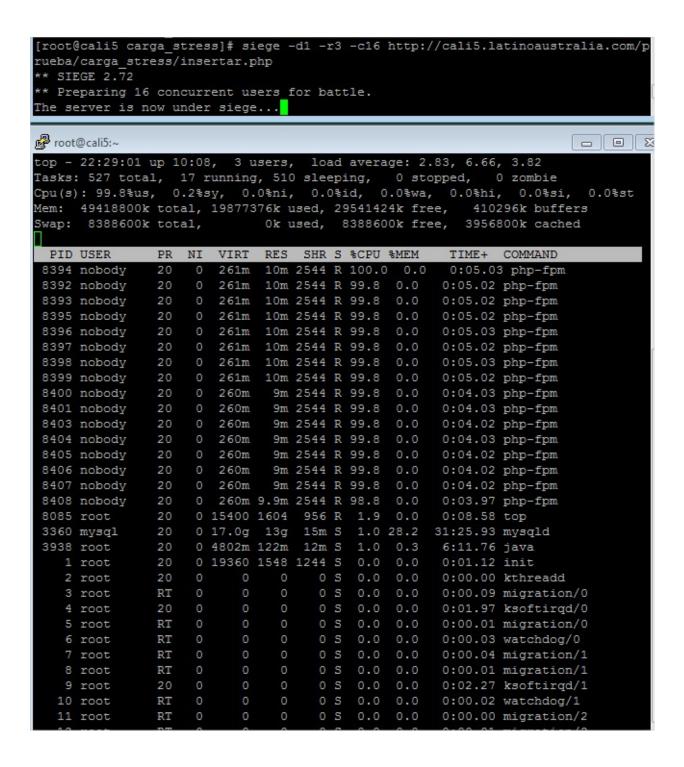
Aquí realizamos la prueba con 3 peticiones por cada uno de los 8 usuarios concurrente simulados, se observa que el tiempo de respuesta permanece igual, es decir el servidor responde igual con 8 usuarios concurrentes que con 1.

```
** SIEGE 2.72
 * Preparing 8 concurrent users for battle.
The server is now under siege..
Transactions: 24 hi
Availability: 100.00 %
Elapsed time: 32.25 se
                              24 hits
                              32.25 secs
Data transferred:
Response time:
                               0.00 MB
                               9.67 secs
                               0.74 trans/sec
Transaction rate:
                               0.00 MB/sec
Throughput:
                                7.20
Concurrency:
Successful transactions:
Failed transactions:
                          10.47
Longest transaction:
Shortest transaction:
                                9.20
```

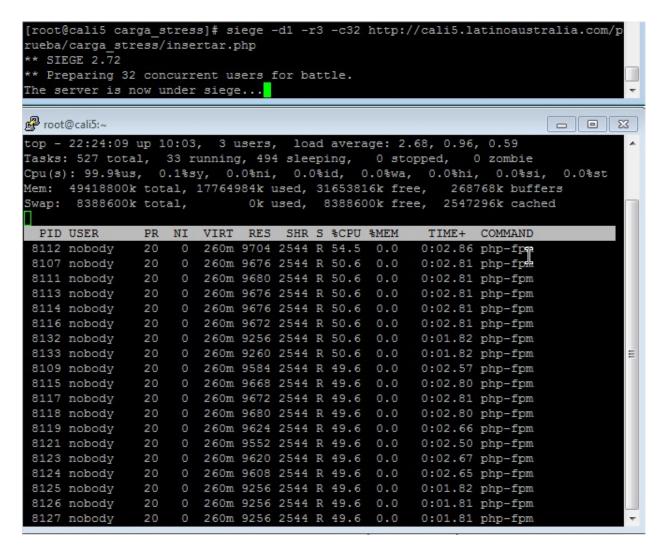
Aquí realizamos la prueba con 16 usuarios, vemos que la velocidad de respueta ha subido de promedio 9.7 segundos a 16.6 segundos, aquí ya vemos que empieza a afectarse negavitamente el rendimiento de la aplicación en el servidor.

```
** SIEGE 2.72
** Preparing 16 concurrent users for battle.
The server is now under siege..
                                 done.
Transactions:
                               48 hits
Availability:
                          100.00 %
Elapsed time:
                           53.01 secs
Data transferred:
                            0.01 MB
                            16.61 secs
Response time:
Transaction rate:
                            0.91 trans/sec
                            0.00 MB/sec
Throughput:
                            15.04
Concurrency:
Successful transactions:
                               48
Failed transactions:
Longest transaction:
                            17.95
Shortest transaction:
                            14.49
```

Aquí una captura que muestra el proceso de PHP (PHP-FPM) ejecutándose con las 16 peticiones concurrentes, en este caso vemos que el porcentaje de tiempo inactivo es 0%, lo que significa que se ocuparon todos los núcleos del servidor.



En esta prueba con 32 usuarios, ya el servidor crashea, el apache empieza a no responder las peticiones, la prueba no finalizó correctamente.



Con esto puedo concluir, que a razón que el servidor tiene 2 procesadores con 4 cores y cada uno emula 2, para un total de 16 cores, el limite se alcanza cuando se ocupan los 16 cores, ya que el script que se está ejecutando demanda toda la velocidad de procesamiento de al menos un nucleo, aquí lo más demorado es generar los registros aleatorios, no tanto la inserción de los registros.

MODELOS DE DATOS

