

instalar :1.-sudo apt-get install binutils-dev

Activar bfd(<https://networklessons.com/uncategorized/how-to-install-bfd-brute-force-detection-on-linux>)

Antes tener esto

```
root@erikahp240G3:/home/erika/Descargas/bfd-1.5-2/files# bfd
Brute Force Detection v1.5-2 <bfd@r-fx.org>
  (C) 1999-2014, R-fx Networks <proj@r-fx.org>
  (C) 2014, Ryan MacDonald <ryan@r-fx.org>
This program may be freely redistributed under the terms of the GNU GPL

usage: /usr/local/sbin/bfd [OPTION]
  -s, --standard          run standard with output
```

```
root@erikahp240G3:/usr/local/bfd# bfd -s
Brute Force Detection v1.5-2 <bfd@r-fx.org>
  (C) 1999-2014, R-fx Networks <proj@r-fx.org>
  (C) 2014, Ryan MacDonald <ryan@r-fx.org>
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may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file asterisk_badauth
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file asterisk_iax
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file asterisk_nopeer
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file courier
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file cpanel
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file dovecot
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file exim_authfail
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file exim_nxuser
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file modsec
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file openvpn
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file postfix
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file proftpd
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file pure-ftpd
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file rh_imapd
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file rh_ipop3d
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file sendmail
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file sshd
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file vpopmail
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file vsftpd
may 30 09:15:53 erikahp240G3 bfd(2110): processing rule file vsftpd2
root@erikahp240G3:/usr/local/bfd# bfd
Brute Force Detection v1.5-2 <bfd@r-fx.org>
  (C) 1999-2014, R-fx Networks <proj@r-fx.org>
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```

./configure --prefix=/projects/mpip/mpiP-3.4.1/install LDFLAGS=-L/usr/lib64 --with-cc=mpicc --with-cxx=mpiCC --with-f77=mpif77

```

erika@ertkahn24063:~/Musica/mpiP-3.4$ ./configure --prefix=/projects/mpiP/mpiP-3.4.1/install LDFLAGS=-L/usr/lib64 --with-cc=mpicc --with-cx
picc --with-f77=mpif77
checking build system type... x86_64-unknown-linux-gnu
checking host system type... x86_64-unknown-linux-gnu
checking target system type... x86_64-unknown-linux-gnu

Note: mpiP sets cross_compiling to yes to keep configure from failing in
the case where test executables would need to be run as a parallel job.

checking for a BSD-compatible install... /usr/bin/install -c
checking for ranlib... ranlib
checking for mpicc... mpicc
checking for mpicc_r... mpicc
checking for mpiclf_r... mpif77
checking for poe... no
checking for srun... no
checking for prun... no
checking for mpirun... mpirun
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... yes
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether mpicc accepts -g... yes
checking for mpicc option to accept ISO C89... none needed
checking for sqrt in -lm... yes
checking whether MPI_Init is declared... yes
checking for library containing dlopen... -ldl
checking for inflate in -lz... yes

```

```

checking for MPI_Win_fence... yes
checking /proc/self/maps... yes
checking for getline... yes
checking fortran to C conversion... yes
checking fortran symbols... lowercase with underscore
checking fortran compiler... GNU
configure: creating ./config.status
config.status: creating Defs.mak
config.status: creating Makefile
config.status: creating testing/Makefile
config.status: creating Check.mak
config.status: creating mpiPi.h
config.status: creating mpi.protos.txt
config.status: creating get_fortran_arg.f
config.status: creating mpip_timers/aix_local.h
config.status: creating mpipconfig.h
config.status: mpipconfig.h is unchanged

*****
mpiP Configuration Summary

C compiler                : mpicc
Fortran compiler          : mpif77

Timer                     : MPI_Wtime
Stack Unwinding           : libunwind
Address to Source Lookup  : bfd

MPI-I/O support           : yes
MPI-RMA support           : yes
*****

```

Ojo tiene que salir lo mismo que en la foto

make

Lo que sale

```
python ./make-wrappers.py --xlate --arch=x86_64 --f77symbol symbol_mpi.protos.txt make-wrappers.py
MPI Wrapper Generator ($Revision: 498 $)
-----*----- Parsing input file
-----*----- Parsing completed: 162 functions found.
-----*----- Beginning parameter optimization
-----*----- Generating structure files
-----*----- Generating profiling wrappers
    Wrapped MPI_Accumulate
    Wrapped MPI_Allgather
    Wrapped MPI_Allgatherv
    Wrapped MPI_Allreduce
    Wrapped MPI_Alltoall
```

```
-----*----- Generating the lookup table
mpicc -g -O2 -I. -DX86_64 -DLinux -c diag_msgs.c -o diag_msgs.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c mpiP-hash.c -o mpiP-hash.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c glob.c -o glob.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c wrappers.c -o wrappers.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c wrappers_special.c -o wrappers_special.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c mpiPi.c -o mpiPi.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c util.c -o util.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c lookup.c -o lookup.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c report.c -o report.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c pcontrol.c -o pcontrol.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c mpiP-API.c -o mpiP-API.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c record_stack.c -o record_stack.o
mpicc -g -O2 -I. -DX86_64 -DLinux -c pc_lookup.c -o pc_lookup.o
ar ruv libmpiP.a diag_msgs.o mpiP-hash.o glob.o wrappers.o wrappers_special.o mpiPi.o util.o
ranlib libmpiP.a
ar: `u' modifier ignored since `D' is the default (see `U')
r - diag_msgs.o
r - mpiP-hash.o
r - glob.o
r - wrappers.o
r - wrappers_special.o
r - mpiPi.o
r - util.o
r - lookup.o
r - report.o
r - pcontrol.o
r - mpiP-API.o
r - record_stack.o
r - pc_lookup.o
ranlib libmpiP.a
```

```
erika@erikahp240G3:~/Música/mpiP-3.4$ make install
if [ -x libmpiP.so ] ; then \
    mkdir -p /projects/mpip/mpiP-3.4.1/install/lib ; \
    /usr/bin/install -c libmpiP.so /projects/mpip/mpiP-3.4.1/install/lib ; \
fi
mkdir -p /projects/mpip/mpiP-3.4.1/install/lib /projects/mpip/mpiP-3.4.1/install/share/doc/mpip
/usr/bin/install -c libmpiP.a /projects/mpip/mpiP-3.4.1/install/lib/libmpiP.a
/usr/bin/install: no se puede borrar '/projects/mpip/mpiP-3.4.1/install/lib/libmpiP.a': Permiso denegado
Makefile:244: recipe for target 'install' failed
make: *** [install] Error 1
```

```
mpicc -g mpip_prueba.c -o prueba.exe -L/projects/mpip/mpiP-3.4.1/install/lib -lmpiP -lm -lbfd -
lunwind -lm
```

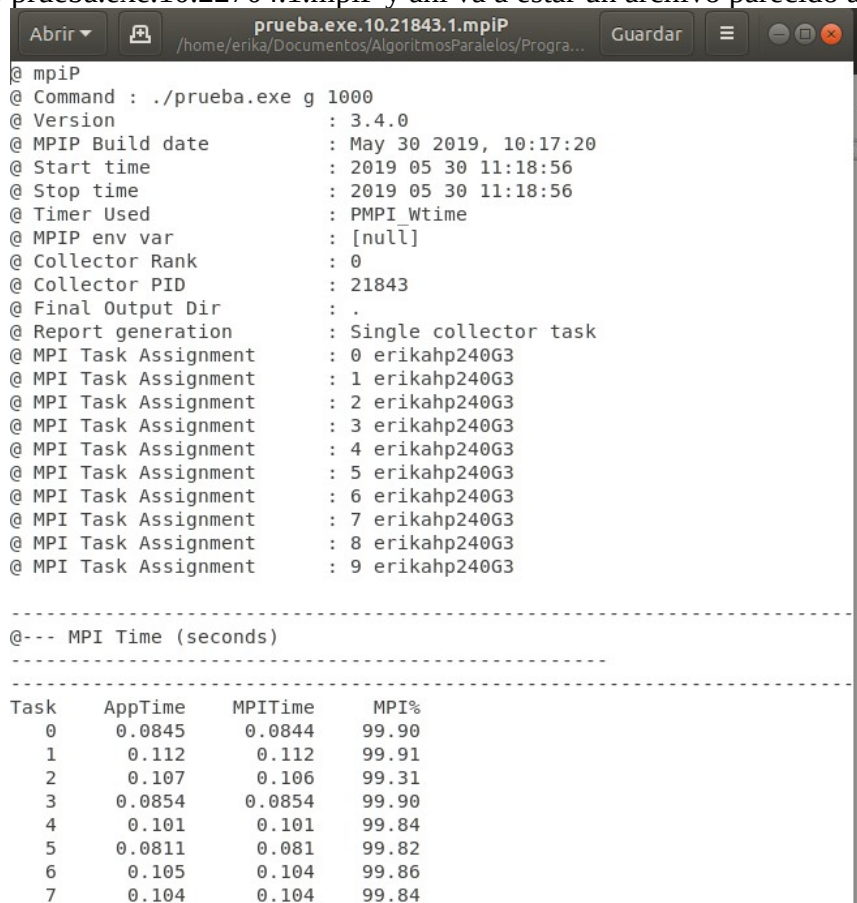
```
erika@erikahp240G3:~/Documentos/AlgoritmosParalelos/ProgramasTeoria/ch3$ mpicc -g mpip_prueba.c -o prueba.exe -L/projects/mpip/mpip-3.4.1/install/lib -lmpi -lm -lbfd -lunwind -lm
mpip_prueba.c: In function 'main':
mpip_prueba.c:20:7: warning: implicit declaration of function 'sleep'; did you mean 'strsep'? [-Wimplicit-function-declaration]
    sleep(sleeptime);    /* slacker! delaying everyone else */
    ^~~~~
strsep
```

Despues de ejecutar va a crear un archivo *.mpiP este lo abrimos.

```
erika@erikahp240G3:~/Documentos/AlgoritmosParalelos/ProgramasTeoria/ch3$ mpiexec -n 1 ./prueba.exe
mpiP: Found MPIP environment variable [-t 10.0]
mpiP: Set the report print threshold to [10.00%].
mpiP:
mpiP: mpiP: mpiP V3.4.0 (Build May 30 2019/10:17:20)
mpiP: Direct questions and errors to mpip-help@lists.sourceforge.net
mpiP:
Esta guardando deberas
mpiP:
mpiP: Storing mpiP output in [./prueba.exe.1.22704.1.mpiP].
mpiP:
```

/tutorial // export MPIP="-t 10.0"

Abrir el archivo prueba.exe.10.22704.1.mpiP y ahi va a estar un archivo parecido a esto



```

Abrir ▾  prueba.exe.10.21843.1.mpiP  Guardar  ≡  -  +  x
/home/erika/Documentos/AlgoritmosParalelos/Progra...

@ mpiP
@ Command : ./prueba.exe g 1000
@ Version : 3.4.0
@ MPIP Build date : May 30 2019, 10:17:20
@ Start time : 2019 05 30 11:18:56
@ Stop time : 2019 05 30 11:18:56
@ Timer Used : PMPI Wtime
@ MPIP env var : [null]
@ Collector Rank : 0
@ Collector PID : 21843
@ Final Output Dir : .
@ Report generation : Single collector task
@ MPI Task Assignment : 0 erikahp240G3
@ MPI Task Assignment : 1 erikahp240G3
@ MPI Task Assignment : 2 erikahp240G3
@ MPI Task Assignment : 3 erikahp240G3
@ MPI Task Assignment : 4 erikahp240G3
@ MPI Task Assignment : 5 erikahp240G3
@ MPI Task Assignment : 6 erikahp240G3
@ MPI Task Assignment : 7 erikahp240G3
@ MPI Task Assignment : 8 erikahp240G3
@ MPI Task Assignment : 9 erikahp240G3

-----
@--- MPI Time (seconds)
-----

Task  AppTime  MPITime  MPI%
0      0.0845    0.0844   99.90
1      0.112     0.112   99.91
2      0.107     0.106   99.31
3      0.0854    0.0854   99.90
4      0.101     0.101   99.84
5      0.0811    0.081   99.82
6      0.105     0.104   99.86
7      0.104     0.104   99.84

```