

## Valgrind

### Installazione

```
cd /prodotti
wget http://valgrind.org/downloads/valgrind-3.3.0.tar.bz2
mkdir valgrind
cd valgrind
mkdir gnu
mkdir intel

RAMO GNU
module load openmpi/gnu
cd /prodotti
tar jvtf valgrind-3.3.0.tar.bz2
chown -R root:root valgrind-3.3.0
cd valgrind-3.3.0
CC=gcc CFLAGS=-O ./configure --prefix=/prodotti/valgrind/gnu
make
make check
make install
```

```
\rm -r valgrind-3.3.0
module unload openmpi/gnu
```

```
cd /csia/modules
mkdir valgrind
vi gnu (vedi sotto:)
```

```
conflict openmpi/intel
conflict compiler/intel
```

```
module load openmpi/gnu
```

```
set vg "/prodotti/valgrind/gnu"
```

```
prepend-path PATH $vg/bin
prepend-path MANPATH $vg/man
```

```
RAMO INTEL
module load openmpi/intel
cd /prodotti
tar jvtf valgrind-3.3.0.tar.bz2
chown -R root:root valgrind-3.3.0
cd valgrind-3.3.0
CC=icc CFLAGS=-O ./configure --enable-only64bit --prefix=/prodotti/valgrind/intel
make
vi valt_load_address_amd64_linux.lds (commentata la riga 193)
make
```

```
make install
```

```
cd /csia/modules/valgrind  
vi intel (vedi sotto:)
```

```
conflict compiler/intel
```

```
module load openmpi/intel
```

```
set vg "/prodotti/valgrind/intel"
```

```
prepend-path PATH $vg/bin  
prepend-path MANPATH $vg/man
```

```
\rm -r valgrind-3.3.0
```

### Esempio d'uso

(debug applicazione parallela sul frontend)

```
module load valgrind/gnu
```

```
mpicc -g ping_pong.c -o ping_pong_gnu
```

```
mpiexec -mca btl ^openib -np 2 valgrind -v ./ping_pong_gnu 100
```

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