INSTALLING OPROFILE

The easiest way to profile Ceph's CPU consumption is to use the oprofile system-wide profiler.

INSTALLATION

If you are using a Debian/Ubuntu distribution, you can install oprofile by executing the following:

sudo apt-get install oprofile oprofile-gui

COMPILING CEPH FOR PROFILING

To compile Ceph for profiling, first clean everything.

make distclean

Then, export the following settings so that you can see callgraph output.

export CFLAGS="-fno=omit-frame-pointer -02 -g"

Finally, compile Ceph.

./autogen.sh ./configure make

You can use make - j to execute multiple jobs depending upon your system. For example:

make -j4

CEPH CONFIGURATION

Ensure that you disable lockdep. Consider setting logging to levels appropriate for a production cluster. See Ceph Logging and Debugging for details.

See the CPU Profiling section of the RADOS Troubleshooting documentation for details on using Oprofile.