

Compile HTCondor 8.4.3 on SLES 11 SP4

Here are some notes on compiling HTCondor 8.4.3 on SUSE Linux Enterprise Server 11 SP4.

I used this guide: <https://htcondor-wiki.cs.wisc.edu/index.cgi/wiki?p=BuildingHtcondorOnUnix>

1. Launch an SLES 11 SP4 image from the AWS Marketplace on Amazon EC2. I used an m3.xlarge instance type.
2. # zypper in git gcc gcc-c++ pcre-devel cmake boost-test boost-devel libcurl-devel python-devel libicu-devel openssl-devel libuuid-devel libxml2-devel pam-devel libexpat-devel bison flex mozilla-nss mozilla-nss-devel openldap2 openldap2-devel xorg-x11-libX11-devel autoconf automake libtoolize libcares-devel krb5-devel pkg-config
3. \$ git clone <https://github.com/htcondor/htcondor.git>
4. \$ cd htcondor
5. \$ git checkout V8_4_3
6. # I was not able to get the CREAM support to compile, so I turned it off
Also, I had problems with the glibc external for standard universe, so I ran with CLIPPED on
\$./configure_uw -DCLIPPED:BOOL=ON -DWITH_CREAM:BOOL=OFF
7. \$ make install
Note that the make package target doesn't produce a correct package (lib/condor and libexec/glite/lib are missing), that's why you need to tar it up yourself
8. Get coffee...
9. \$ mv release_dir condor-8.4.3-sles11
10. \$ tar czvf condor-8.4.3-sles11.tar.gz condor-8.4.3-sles11

HTCondor on Bluewaters

Some notes to compile HTCondor from source for Bluewaters

1. Download HTCondor source from website. We tried it with 8.5.5
2. install the following packages
 - a. PCRE
 - b. libpam
 - c. libuuid
3. make sure certain modules like boost and globus are loaded in your environment
 - a. module add boost
 - b. module add globus
4. Update CMAKE prefix to point to dependencies in step 1 . you may have to install newer version of CMAKE
 - a. export CMAKE_PREFIX_PATH=/u/training/instr006/SOFTWARE/install/pcre-7.6/:/u/training/instr006/SOFTWARE/install/pcre-7.6/:/u/training/instr006/SOFTWARE/install/libpam/1.3/:/u/training/instr006/SOFTWARE/install/libuuid/
5. Set Compiler Flags before compiling
 - a. export CC=gcc

export CXX=g++

export CFLAGS=-I/u/training/instr006/SOFTWARE/install/pcre-7.6/include

export CXXFLAGS=-I/u/training/instr006/SOFTWARE/install/pcre-7.6/include

export LDFLAGS=-L/u/training/instr006/SOFTWARE/install/pcre-7.6/lib
6. Build condor
 - a. rm -rf condor-8.5.5; (tar xzf condor_src-8.5.5-all-all.tar.gz && cd condor-8.5.5 && rm -rf src/nordugrid_gahp && cmake -DUW_BUILD:BOOL=TRUE -D_VERBOSE:BOOL=TRUE -DBUILDID:STRING=BW -DCLIPPED:BOOL=ON -DWITH_BLAHP:BOOL=TRUE -DWITH_CREAM:BOOL=OFF -DWANT_MAN_PAGES:BOOL=FALSE -DCMAKE_INSTALL_PREFIX:PATH=\${PWD}/release_dir && make && make install) 2>&1 | tee build.log
7. # one successfully built, install condor
 - a. cd release_dir

./condor_configure --install --make-personal-condor --prefix=/u/training/instr006/SOFTWARE/install/condor/8.5.5
8. sds

As of August 18th, HTCondor is currently running on the login nodes

To use that installation do:

source /projects/eot/bafu/setup.sh

a.