Process:

1. Install fedora 21 on a vm
2. Upgrade fedora 21 to latest version of packages
3. Checkout and install llvm using: svn co <http://llvm.org/svn/llvm-project/llvm/trunk> llvm
4. checkout and build llvm-gcc using: svn co <http://llvm.org/svn/llvm-project/llvm-gcc-4.2/trunk> llvm-gcc
5. checkout and compile klee using: svn co <http://llvm.org/svn/llvm-project/klee/trunk> klee
6. install uClibc from yum repository
7. checkout and build cryptominisat4 using: git clone <https://github.com/msoos/cryptominisat.git>
8. download and install boost\_1\_57\_0.
9. Checkout and build stp using: git clone <https://github.com/stp/stp.git>
10. Install lcov from yum repository (obtain gcov coverage tools)
11. Install cmake, autotools, autoconf, automake, gcc, g++, flex bison, from yum repository.
12. Download and configure coreutils-8.9 from <ftp://gnu.org/s/coreutils>
    1. Modify /lib/stdio.h to comment out lines 475-476 because otherwise the utilities will not compile.
    2. Build with gcov:

Mkdir gcov-obj; cd gcov-obj

../configure –prefix=gcov-prefix –disable-nls CFLAGS=”-g –fprofile-arcs –ftest-coverage”

Make; make install

* 1. Configure with llvm:

1. Checkout and install z3 using git clone <https://github.com/z3Prover/z3.git>
   1. Run python scripts/mk\_make.py –g (to generate makefiles in z3/build folder)
2. Download, patch and build fuzzsmt from <http://fmv.jku.at/fuzzsmt>.
   1. Generate a set of smtlib2 format files for testing the constraint solvers.
      1. 5 variables and 1-100 constraints
      2. 5 constraints and 1-100 variables
   2. Run all 200 test files through both stp and z3 recording timings using linux time command.

Llvm-gcc:

<http://stackoverflow.com/questions/25251380/stdnumeric-limits-as-a-condition>

<http://lists.cs.uiuc.edu/pipermail/llvm-commits/Week-of-Mon-20140303/207744.html>