Subject: Re: theide with libclang
Posted by Lance on Sun, 02 Oct 2022 00:19:39 GMT
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I did a clean installation of Ubuntu 22.04 LTS. After update and upgrade, first thing I did was download and ./Install UPP version 16450.

Turns out

```
bool LoadLibClangAutomatically()
{
 String libdir = TrimBoth(Sys("llvm-config --libdir"));
 if(LoadLibClang(libdir + "/libclang.so")) {
  return true;
 }
 if(LoadLibClang("/usr/lib/libclang.so")) {
  return true;
 }
 for(int i = 20; i >= 10; i--) {
  if(LoadLibClang("/usr/lib/llvm-" + AsString(i) + "/lib/libclang.so")) {
   return true;
  }
 }

 return false;
}
```

failed even though a libclang is present in the system.

After I made the following change, libclang can be successfully located. It seems some expected symlinks were not present in the system.

```
bool LoadLibClangAutomatically()
{
 String libdir = TrimBoth(Sys("llvm-config-14 --libdir"));
 if(LoadLibClang(libdir + "/libclang.so.1")) {
  return true;
 }
 if(LoadLibClang("/usr/lib/libclang.so")) {
  return true;
 }
 for(int i = 20; i >= 10; i--) {
  if(LoadLibClang("/usr/lib/llvm-" + AsString(i) + "/lib/libclang.so")) {
   return true;
  }
 }

 return false;
}
```

After that, Assist++ is up and running, parsing the sources and populating the right panel with

class/function/etc info. I was even successful to invoke code completion with object name following by a dot(.). It went much further than it used to. Unfortunately segmentation fault follows. Yes, it's built in debug mode. No, gdb, run & bt would not produce anything useful, essentially very similar to what Tom and I have posted.