Embed shell command `...`

```
file (GLOB RECURSE INTERFACE V8 OBJECTS $
{PROJECT SOURCE DIR}/package/interface v8/*.cpp)
GetObjects(INTERFACE V8 OBJECTS ...)
add custom command (
   COMMAND ${CMAKE CXX COMPILER} -shared ... ../libcsim.so -WI,--
start-group ${INTERFACE V8 OBJECTS} ${AARCH64 INST OBJECTS} ...
-WI,--end-group
=> set (FIND INTERFACE V8 OBJECTS
"`find;obj/interface v8/CMakeFiles/interface v8.dir/;-name;*.o|sed;':a\;N\;$!
ba\;s/\\n/\;/g'\")
add custom command (
   COMMAND ${CMAKE CXX COMPILER} -shared ... ../libcsim.so -WI,--
start-group ${FIND INTERFACE V8 OBJECTS} ${FIND INST OBJECTS} ...
-WI,--end-group
```

AARCH64_INST_OBJECTS

```
add_executable (csim_v8 ${PROJECT_SOURCE_DIR}/src/main/main_v8.cpp)
target_link_libraries (csim_v8 ${AARCH64_INST_OBJECTS} $
{CSIM_NEEDED_LIBS} z)

=> add_executable (csim_v8 ${PROJECT_SOURCE_DIR}/src/main/main_v8.cpp $
{AARCH64_INST_CPP}) * too slow

=> add_library(AARCH64_INST_OBJECTS OBJECT ${AARCH64_INST_CPP})
add_executable (csim_v8 ${PROJECT_SOURCE_DIR}/src/main/main_v8.cpp
$<TARGET_OBJECTS:AARCH64_INST_OBJECTS>)

* CMake 2.8.8 (sun glid 2.6.x)
```

Change link from shell command to library

Performance (time make -j8)

```
• cmake -DBUILD SHARED LIB=CURRENT -DBUILD EXE=CURRENT .
• time make -i8
• real 4m4.298s
• cmake -DBUILD SHARED LIB=SH COMMAND -DBUILD EXE=CURRENT.
• real 4m11.674s
• cmake -DBUILD SHARED LIB=ADD LIBRARY CPP -DBUILD EXE=OBJECT.
• add library (csim SHARED ${INTERFACE V8 CPP} ${AARCH64 INST CPP})
• real 5m4.017s
• cmake -DBUILD SHARED LIB=ADD LIBRARY OBECT -DBUILD EXE=OBJECT .

    add library(AARCH64 INST OBJECTS OBJECT ${AARCH64 INST CPP})

• add library (csim SHARED ${INTERFACE V8 CPP} $<TARGET OBJECTS:AARCH64 INST OBJECTS>)
• real 4m5.425s
• cmake -DBUILD SHARED LIB=ADD LIBRARY -DBUILD EXE=CPP .
• real 12m9.950s
```

• => Rebuild src/v8/aarch64/instruction/ for every exe file.

Ref

• http://lists.llvm.org/pipermail/llvm-dev/2015-February/082722.html

Conclusion

• Leave the change to add_lib(... OBJECT ...) when sun-grid's cmake upgrade to 2.8.8 above.