

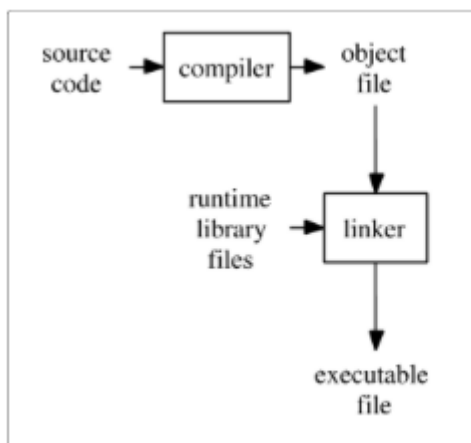
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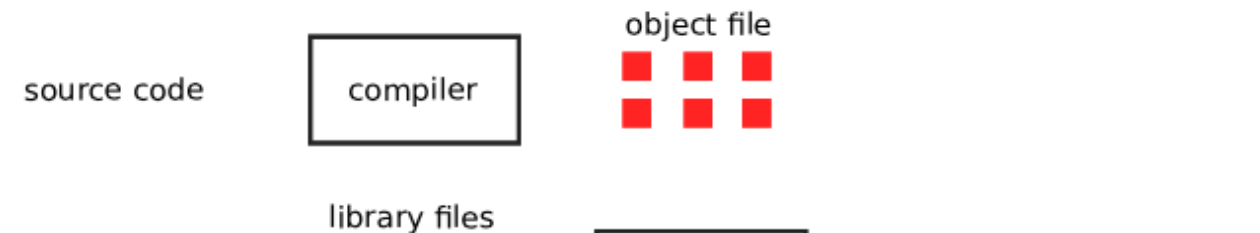
CSC 312

SOME COMPILERS PRODUCE HIGH LEVEL LANGUAGE CODE AS THEIR OUTPUT-FOR EXAMPLE THE C++.

BELOW IS HOW A C++ CODE CAN BE A CONVERTER TO MACHINE LANGUAGE CODE.



A COMPILER TAKES THE PROGRAM CODE (SOURCE CODE) AND CONVERTS THE MACHINE LANGUAGE MODULE (CALLED THE OBJECT FILE).ANOTHER SPECIALIZED PROGRAM,CALLED A LINKER COMBINES THIS OBJECT FILE WITH OTHER PREVIOUSLY COMPILED OBJECT FILES(IN PARTICULAR RUN-TIME MODULES) TO CREATE AN EXECUTABLE FILE.IF THE INITIAL BUILD IS CLICKED THEN AN ANIMATION OF HOW THE EXECUTABLE IS CREATED IS SEEN.CLICK RUN EXECUTABLE SIMULATE THE RUNNING OF AN ALREADY EXECUTABLE FILE,CLICK REBUILD TO SIMULATE REBUILDING OF THE EXECUTABLE FILE.



FOR A COMPILED LANGUAGE THE CONVERSION FROM SOURCE CODE TO MACHINE EXECUTABLE CODE TAKES PLACE FOR AN INTERPRETED PROGRAMMING LANGUAGE.

THIS IS SOMEWHAT SIMPLIFIED AS MANY MORDERN PROGRAMS THAT ARE CREATED USING COMPILED LANGUAGES MAKES USE OF DYNAMIC LINKS LIBRARY OR SHARED LIBRARIES.

THEREFORE,THE EXECUTABLE FILE MAY REQUIRE THIS DYNAMIC LINKED LIBRARIES OR SHARED LIBRARIES(LINUX,UNIX)TO RUN.