Linking C++ with C

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In order to link C procedures into C++ programs, you need to declare your C functions in your C++ programs by declaring them in your C++ file. An example is

```
extern "C" {
        double sqrt(double);
 }
```

which declares sqrt to be a function that takes a double as an argument and returns a double. This information is needed so that C++ can check that your uses of this function have the correct type.

If you're using makefiles, you can have the files combined automatically. You'd could use a Makefile like:

```
SRCS = foo.C bar.c
 OBJS = foo.o bar.o


 .SUFFIXES: .C .o
 .C.o: ; $(C++) $(C++FLAGS) -c $<
 C++=g++


 prog: $(OBJS)
  $(C++) $(C++FLAGS) -o prog $(OBJS) -lm
```

to link together "foo.C" (the c++ file) and "bar.c" (ordinary C) to make the executable program "prog".