Abstract

We describe a facility that enables routine type-checking during the linkage of external declarations and definitions of separately compiled programs in ANSI C. The primary advantage of our server-style type-checked linkage facility is the ability to program the composition of object modules via a suite of strongly typed module combination operators. Such programmability enables one to easily incorporate programmer-defined data format conversion stubs at link-time. In addition, our linkage facility is able to automatically generate safe coercion stubs for compatible encapsulated data.