

Ada 9X Reusable Components

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The inclusion of concurrency in Ada leads to multiple reusable components which implement the same abstraction. The proposed modifications of Ada 9X contain features which may eliminate the need for more than one version of an abstraction. An example of an Ada 9X component illustrates the use of these features.

Introduction

The inclusion of concurrency in the definition of the Ada language leads to the need for language constructs to protect shared data from simultaneous access by multiple threads of control. Because Ada also supports a form of modularity which makes reusable components practical, this protection must be considered when developing reusable components. A number of authors have discussed how this should be done [1, 2, 3, 4]. Their solutions have one thing in common: To ensure that the shared data is protected, all tasks attempting to access the data must rendezvous with another task which protects the shared data.

Although there are exceptions, a rendezvous is a relatively inefficient operation as implemented by most Ada compilers. If a program does not have multiple tasks, it may be detrimental to introduce tasks into the program by reusing a component which contains a task. This leads to the development of two (or more) components which implement the same abstraction, a sequential version for use by systems which do not have multiple tasks, and a concurrent version for use by systems which do. In practice, more than two versions are generally considered necessary. For example, both Booch [1] and I [2, 4] consider multiple concurrent versions of the same abstraction to be needed, although for different reasons.

Having multiple versions of the same abstraction is itself error prone. If a sequential system is modified to use multiple tasks, for example, the modifiers must remember to change reused components from the sequential version to a concurrent version. The concurrent version may have different names and calling conventions than the sequential version, which may mean that every use of the component in the system will need to be changed.

The proposed revision of Ada, called Ada 9X, contains a construct which allows shared data to be protected without the use of a task to protect the data. It also contains features to allow object-oriented programming in Ada with inheritance and polymorphism. Since the basic concept underlying these features has passed through two drafts of the *Mapping Specification* [5] unchanged, it is likely that something very like them will be part of the final Ada 9X standard. The combination of these features may significantly change the way reusable components will be implemented in Ada 9X. Specifically, the "protected record" construct, which provides for shared data protection without introducing a thread of control, may eliminate the need for multiple versions of the same abstraction. A protected record provides for the protection needed by applications with multiple tasks. Since a protected record object does not contain a thread of control, it may be suitable for use by purely sequential systems as well.

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