Subject: Comments on SELECT TYPE
From: Van Snyder

1 A Simplification of SELECT TYPE

If the *extensible-type-name* in a TYPE IN type guard were extended to allow an asterisk it would be possible to delete TYPE DEFAULT. Specifying the declared type by an asterisk is the notation recently introduced to specify the declared type of unlimited polymorphic objects. All extensible types are extended from the asterisk type.

Necessary changes are:

or TYPE IN (*) [*select-construct-name*]	152:34
[Editor: Delete.]	152:40-41
An asterisk in a TYPE IN type guard denotes the unlimited extensible type (5.1.1.8), from which all other polymorphic types are extended.	153:4+
[Editor: Replace "several types named in" by "the types specified in several".]	153:18-19
[Editor: Delete.]	153:22-23
[Editor: Delete.]	153:31-32

2 Type of the associate name in a block guarded by TYPE IN

The declared type of the associate name within a block guarded by a TYPE IN type guard is presently specified to be the type specified in the guard. If the declared type of the type selector is an extension of the type specified in the type guard, it may have components that are known to exist but are inaccessible. If the declared type were the type of the type selector in that case, this anomaly would not occur.

Necessary changes are:

[Editor: End the sentence after "(5.1.1.8)" and replace the remainder of the paragraph with the following:] The declared type of the associate name is the declared type of the type selector if that type is an extension type of the type specified in the type guard; otherwise, it is the type specified in the type guard. The dynamic type of the associate name is the dynamic type of the type selector.	153:29-30