

Accredited Standards Committee*
X3, INFORMATION PROCESSING SYSTEMS

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Reply to: Andrew Koenig
AT&T Bell Laboratories
PO Box 636
600 Mountain Avenue
Room 2C-306
Murray Hill, NJ 07974 USA
ark@research.att.com

Allowing `throw T` as a synonym for `throw T()`

If `T` is a type, I propose to allow

```
throw T;
```

as an abbreviation for

```
throw T();
```

with exactly the same meaning. My rationale:

- I forget the parentheses all the time and have seen others do the same.
- The `new` and `sizeof` operators allow the same abbreviation.

One new grammar rule is needed to implement this change:

throw-expression:
 `throw type-id`

I believe this is unambiguous because of the low precedence of throw-expressions.

In addition, the following text would have to be added after Paragraph 1 of [except.throw]:

“If `throw` is followed by a *type-id*, the implementation creates and throws an object of the specified type. If the type is a class with a default constructor ([class.ctor]), that constructor will be called; otherwise the result is the default value given to a static object of the specified type.”

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