

Preliminary 3.3 Release Notes: libg++

This file contains release notes for the initial release of the GNU C++ class library (libg++-2.5.3).

New Features

This section describes the major GNU changes since the previous release of libg++ in NeXTSTEP 3.2.

* The iostream directory is gone. It has been replaced by ../libio.

One major change is that libiostream.ac(which is built in ../libio) can be used indendently of libg++ as in the example illustrated below. However libg++.a also links with libiostream.a internally and therefore, when linking with libg++.a, libiostream.a need not be explicitly specified on the command line.

```
#include <stream.h>
```

```
main() {  
    cout << "Hi world\n";  
}
```

and the compilation command would be

```
cc++ test.cc -o tst -liostream
```

and executing **tst** would result in

```
Hi world!
```

* A few of pseudo-template classes (SLList/DLList) have been converted to use real templates. These files can be used as follows:

```
#include <stream.h>  
#include <String.h>  
#include <SLList.h>
```

```
main(){  
    SLList<String> listOfnames;
```

```
listOfnames.append("hello world");  
cout <<listOfnames.remove_front() << "\n";  
  
}
```

Compiling the above example with

```
cc++ test.cc -lg++
```

and running would result in

```
hello world
```

However, no promise is implied about when/if the remaining ones will be converted. Hence genclass is still necessary for specific class creation.

Notes

Specific to Release 3.3

The stream manipulators declared in the file
/NextDeveloper/Headers/g++/iomanip.h

are now supported due to the addition of support for templates in gcc in
the current version of NeXTSTEP.

The directive `#pragma cplusplus` has been added to every libg++ header that is the above pragma is specified in which case, the C++ linkage is enabled.