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G++ 2.91.57, cygnus\cygwin-b20\include\g++\stl_tempbuf.h 完整列表
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/* NOTE: This is an internal header file, included by other STL headers.
   You should not attempt to use it directly.
* /
#ifndef __SGI_STL_INTERNAL_TEMPBUF_H
#define __SGI_STL_INTERNAL_TEMPBUF_H
__STL_BEGIN_NAMESPACE
template <class T>
pair<T*, ptrdiff_t> get_temporary_buffer(ptrdiff_t len, T*) {
 if (len > ptrdiff_t(INT_MAX / sizeof(T)))
   len = INT_MAX / sizeof(T);
 while (len > 0) {
   T^* tmp = (T^*) malloc((size_t)len * sizeof(T));
   if (tmp != 0)
     return pair<T*, ptrdiff_t>(tmp, len);
   len /= 2;
```

```
return pair<T*, ptrdiff_t>((T*)0, 0);
template <class T>
void return_temporary_buffer(T* p) {
 free(p);
}
template <class ForwardIterator,
        class T
#ifdef __STL_CLASS_PARTIAL_SPECIALIZATION
               = iterator_traits<ForwardIterator>::value_type
#endif /* __STL_CLASS_PARTIAL_SPECIALIZATION */
class temporary_buffer {
private:
 ptrdiff_t original_len;
 ptrdiff_t len;
 T* buffer;
 void allocate_buffer() {
   original_len = len;
   buffer = 0;
   if (len > (ptrdiff_t)(INT_MAX / sizeof(T)))
     len = INT_MAX / sizeof(T);
   while (len > 0) {
    buffer = (T*) malloc(len * sizeof(T));
    if (buffer)
      break;
     len /= 2;
   }
 }
 void initialize_buffer(const T&, __true_type) {}
 void initialize_buffer(const T& val, __false_type) {
   uninitialized_fill_n(buffer, len, val);
 }
public:
 ptrdiff_t size() const { return len; }
 ptrdiff_t requested_size() const { return original_len; }
 T* begin() { return buffer; }
 T* end() { return buffer + len; }
 temporary_buffer(ForwardIterator first, ForwardIterator last) {
   __STL_TRY {
     len = 0;
```

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distance(first, last, len);
     allocate_buffer();
     if (len > 0)
      initialize_buffer(*first,
                     typename __type_traits<T>::has_trivial_default_constructor());
     _STL_UNWIND(free(buffer); buffer = 0; len = 0);
 ~temporary_buffer() {
   destroy(buffer, buffer + len);
   free(buffer);
private:
 temporary_buffer(const temporary_buffer&) {}
 void operator=(const temporary_buffer&) {}
};
__STL_END_NAMESPACE
#endif /* __SGI_STL_INTERNAL_TEMPBUF_H */
// Local Variables:
// mode:C++
// End:
```