```
iofilter.h
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                                                                                                   Page 1/1
   #ifndef __iofilter_h_
   #define iofilter h
   /* Í þessari skrá eru skilgreindir streambuf erfingjar
       sem nota má til að umbreyta straumum milli stafasetta
       með umbreytingartöflum */
   #include <iostream>
   #include <sstream>
   namespace ff {
   extern const char* _trans_861_iso;
extern const char* _trans_iso_861;
   inline unsigned char translate(unsigned char c, const char* table) {
             if (c < 128) return c;
             return table[c-128];
20
   inline void translatebuffer(char* buf, size_t n, const char* table) {
            for (size_t i = 0; i < n; i++) {
    unsigned char c = buf[i]</pre>
                      if (c < 128) continue;</pre>
                     buf[i] = table[c-128];
   class ofilterbuf : public std::streambuf {
    const char* _table;
             std::streambuf* dst;
             char* _buffer;
   public:
             ofilterbuf(const char* table, std::streambuf* dst, int buflen = 512)
                      : _table(table), _dst(dst) {
35
                               _buffer = new char[buflen];
                               setp(_buffer, _buffer+buflen);
             virtual ~ofilterbuf() {
40
                     sync();
                     delete [] _buffer;
             virtual int sync();
             virtual int overflow(int ch);
   };
   class ifilterbuf : public std::streambuf {
    std::streambuf* _src;
             const char* _table;
             char* _buffer;
             size_t _buflen;
   public:
             ifilterbuf(const char* table, std::streambuf* src, int buflen = 512)
                      : _table(table), _src(src), _buflen(buflen) {
    _buffer = new char[_buflen];
55
                               setg(_buffer, _buffer+_buflen, _buffer+_buflen);
                      virtual ~ifilterbuf() { delete [] _buffer; }
             virtual int underflow();
   };
   #endif /* iofilter h */
```

```
#include "iofilter.h"
                   using namespace ff;
                  using namespace std;
                                 translate strengir byrjar á staf 128, stafir
                                  sem ekki finnast í target stafasetti eru settir sem
                                  stafurinn \137 ('_') */
 10 const char* ff::_trans_861_iso =
                                                                "\307\374\351\342\344\340\345\347\352\353\350\320\360\336\304"
                                                                "\305\311\346\306\364\366\376\373\335\375\326\334\370\243\330"
                                                                 "\137\137\341\355\363\372\301\315\323\332\277\137\254\275\274"
                                                                " \setminus 137 \setminus 
                                                                 "\260\137\267\137\137\262\137\240"
20 ;
                   const char* ff::_trans_iso_861 =
                                                                " \setminus 137 \setminus 
                                                                 "\252\252\252\370\361\375\375\375\346\346\372\372\372\372\372\257"
                                                                 "\254\253\253\250\250\244\244\244\216\217\222\200\200\220\220"
                                                                 "\220\220\245\245\245\213\213\213\2146\246\246\231\231\235\235"
                                                                 "\247\247\232\227\215\341\205\240\203\203\204\206\221\207\212"
                                                                 "\202\210\211\211\241\241\241\214\214\214\214\242\223\223\224\366"
30
                                                                "\233\233\243\226\201\230\225\225"
                 int ofilterbuf::sync() {
                                                              streamsize n = pptr() - pbase();
                                                                if (0 == n) return 0;
                                                                translatebuffer(pbase(), n, _table);
                                                                if (n != _dst->sputn(pbase(), n))
                                                                                                           cerr << "Móttökustraumur í ofilterbuf gat ekki tekið við öllu." << endl;
                                                                pbump(-n);
                                                                return 0;
                  int ofilterbuf::overflow(int ch) {
                                                                streamsize n = pptr() - pbase();
                                                              if (n && sync())
                                                                                                          return EOF;
                                                                if (ch != EOF) {
                                                                                                           _dst->sputc(translate(ch, _table));
                                                                return 0;
55
                  int ifilterbuf::underflow()
                                                             if (gptr() < egptr()
                                                                                                        return *gptr();
                                                                streamsize read = _src->sgetn(eback(), _buflen);
                                                              if (0 == read && EOF == _src->sgetc()) {
                                                                                                           return EOF;
                                                                translatebuffer(eback(), read, _table);
                                                                setg(eback(), eback(), eback()+read);
                                                              return *gptr();
```

translate.cpp

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```
MyAST.h
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   #ifndef __myast_h_
#define __myast_h_
   #include <antlr/CommonAST.hpp>
   namespace ff {
   class ffAST;
typedef antlr::ASTRefCount<ffAST> RefffAST;
   /* ffAST er klasi sem nota má sem AST hnút í ANTLR trjásmið.
      Hann sér sjálfur um að halda utan um úr hvaða línu inntaksins
      hann var smíðaður. */
15 class ffAST : public antlr::CommonAST {
   private:
        int _line;
   public:
            ffAST() : _line(0) {}
virtual ~ffAST() {}
20
        int getLine() const
                    return _line;
25
            void initialize(antlr::RefToken t)
                    antlr::CommonAST::initialize(t);
                    _line = t->getLine();
30
            void initialize(antlr::RefAST t)
                    antlr::CommonAST::initialize(t);
35
                    _line = (static_cast<ffAST*>(t.get()))->_line;
            static antlr::RefAST factory()
                    return antlr::RefAST(new ffAST);
   #endif
```

```
utils.cpp
Nov 02, 03 13:56
                                                                                                           Page 1/1
    #include "utils.h"
    namespace ff {
             char styriStafur(std::string takn) {
    // assert (takn[0] == '\\')
    switch (takn[1]) {
                       case '$':
                                 // assert (string.length() == 4)
return (char) (
                                                       hex2int(takn[2]) << 4
                                                    hex2int(takn[3]));
                       case 'c': case 'C': return (char) 13;
case 'b': case 'B': return (char) 7;
case 'e': case 'E': return (char) 27;
15
                       case 'f': case 'F':
                                                    return (char) 12;
                       case 'n': case 'N':
                                                    return (char) 10;
                       case 't': case 'T':
                                                   return (char) 9;
20
                       case '5': case '6': case '7': case '8': case '9':
                                 return takn[1] - '0';
25
                       default:
                                 return takn[1];
30
              int hex2int(char c) {
   if (c >= '0' && c <= '9')</pre>
                                return c - '0';
                       35
                                 return c - 'A' + 10;
                       else
                                 return 0;
```

Tuesday November 18, 2003

utils.cpp

Prin