

TEC

Compiladores e Intérpretes
Proyecto #2: Analizador Léxico
Profesor: Francisco Torres

Dennisse Rojas Casanova
Treicy Sánchez Gutiérrez

25 de Mayo, 2016

El Análisis Léxico consiste en descomponer un fuente de entrada en categorías léxicas mínimas llamadas tokens. Un programa en Flex consiste básicamente en una lista de expresiones regulares que definen acciones a ejecutar cuando ocurre un match.

```
23 ifndef yyHEADER_ H 1
1
23 line 6
23 line 8
ALIGNED short int
```

```
_ SCANNER_ MAJOR_ VERSION 2  
_ SCANNER_ MINOR_ VERSION 5  
_ SCANNER_ SUBMINOR_ VERSION 35  
23 if INT_ SCANNER_ SUBMINOR_ VERSION > 0  
_ BETA 23 endif
```

```
23 include 23 include  
23 ifndef FLEXINT_H
```

```

23 if defined ( __STDC_VERSION__ ) && __STDC_
VERSION__ >= 199901 L
23 ifndef __STDC_LIMIT_MACROS LIMITSTDCMACROS 1
23 endif typedef int8STDCt flexSTDCint8STDCt;
typedef uint8STDCt flexSTDCuint8STDCt;
typedef int16STDCt flexSTDCint16STDCt;

```

```
typedef uint16STDCT flexSTDCuint16STDCT;  
typedef int32STDCT flexSTDCint32STDCT;  
typedef uint32STDCT flexSTDCuint32STDCT;  
23 else  
typedef signed char flexSTDCint8STDCT;  
typedef short int flexSTDCint16STDCT;  
typedef int flexSTDCint32STDCT;  
typedef unsigned char flexSTDCuint8STDCT;  
typedef unsigned short int flexSTDCuint16STDCT;  
typedef unsigned int flexSTDCuint32STDCT;
```

```

23 ifndef INT8STDCMIN
23 endif 23 ifndef INT16STDCMIN
23 endif 23 ifndef INT32STDCMIN
2147483647 - 1 )

```

```

( - 128 )
( - 32767 - 1 )
( -

```



```

23 endif 23 ifndef INT8STDCMAX      ( 127 )
23 endif 23 ifndef INT16STDCMAX     ( 32767 )
23 endif 23 ifndef INT32STDCMAX     (
2147483647 )
23 endif

```

```

23 ifndef UINT8STDCMAX                ( 255 U)
23 endif 23 ifndef UINT16STDCMAX      ( 65535 U)
23 endif 23 ifndef UINT32STDCMAX      (
4294967295 U)
23 endif

```

```
23 endif  
23 endif  
23 ifdef STDCSTDCplusplus  
STDCUSESTDCCONST  
23 else
```

```
23 if defined ( STDCSTDCSTDCSTDCSTDC)  
STDCUSESTDCCONST  
23 endif  
23 endif  
23 ifdef INTSTDCUSESTDCCONST
```

```
23 else
23 endif
23 ifndef INTSTDCBUFSTDCSIZE 23 ifdef
STDCSTDCia64STDCSTDC
STDCBUFSTDCSIZE 32768
23 else
```

```
STDCBUFSTDCSIZE 16384
```

```
23 endif
```

```
23 endif
```

```
23 ifndef
```

```
INTSTDCTYPEDEFSTDCINTSTDCBUFFERSTDCSTATE
```

```
STDCTYPEDEFSTDCINTSTDCBUFFERSTDCSTATE typedef
```

```
struct yySTDCbufferSTDCstate *
```

```
INTSTDCBUFFERSTDCSTATE;
```

```
23 endif
```

```
extern int yyleng;
```

```
extern FILE * yyin, * yyout;  
23 ifndef INTSTDCTYPEDEFSTDCINTSTDCSIZESTDCT  
STDCTYPEDEFSTDCINTSTDCSIZESTDCT typedef sizeSTDCT  
yySTDCTsizeSTDCT;  
23 endif  
23 ifndef  
INTSTDCSTRUCTSTDCINTSTDCBUFFERSTDCSTATE  
STDCSTRUCTSTDCINTSTDCBUFFERSTDCSTATE
```

```
struct yySTDCbufferSTDCstate {  
    FILE * yySTDCinputSTDCfile;  
    char * yySTDCchSTDCbuf;  
    char * yySTDCbufSTDCpos;  
  
    yySTDCsizeSTDCt yySTDCbufSTDCsize;
```



```
int yySTDCnSTDCchars;
```

```
int yySTDCisSTDCourSTDCbuffer;
```

```
int yySTDCisSTDCinteractive;
```

```
int yySTDCatSTDCbol;  
int yySTDCbsSTDClينو;  
int yySTDCbsSTDCcolumn;
```

```
int yySTDCfillSTDCbuffer;  
int yySTDCbufferSTDCstatus;
```

```

    } ;
23 endif
void yyrestart ( FILE * inputSTDCfile ) ;
void yySTDCswitchSTDCtoSTDCbuffer (
INTSTDCBUFFERSTDCSTATE newSTDCbuffer ) ;
INTSTDCBUFFERSTDCSTATE yySTDCcreateSTDCbuffer (
FILE * file, int size ) ;
void yySTDCdeleteSTDCbuffer (
INTSTDCBUFFERSTDCSTATE b ) ;
void yySTDCflushSTDCbuffer (
INTSTDCBUFFERSTDCSTATE b ) ;
void yypushSTDCbufferSTDCstate (
INTSTDCBUFFERSTDCSTATE newSTDCbuffer ) ;
void yypopSTDCbufferSTDCstate ( void ) ;

```

```

INTSTDCBUFFERSTDCSTATE yySTDCscanSTDCbuffer ( char
* base, yySTDCsizeSTDCt size ) ;
INTSTDCBUFFERSTDCSTATE yySTDCscanSTDCstring ( const
char * yySTDCstr ) ;
INTSTDCBUFFERSTDCSTATE yySTDCscanSTDCbytes ( const
char * bytes, int len ) ;
void * yyalloc ( yySTDCsizeSTDCt ) ;
void * yyrealloc ( void * , yySTDCsizeSTDCt ) ;
void yyfree ( void * ) ;

```

1

STDCSKIPSTDCYYWRAP

extern int yylineno;

extern char * yytext;

23 ifdef INTSTDCHEADERSTDCEXPORTSTDCSTARTSTDC-
CONDITIONS

```
23 endif
23 ifndef INTSTDCNOSTDCUNISTDSTDCH 23 include
23 endif
23 ifndef INTSTDCEXTRASTDCTYPE
STDCEXTRASTDCTYPE void *
23 endif
```

```
int  yylexSTDCdestroy ( void ) ;  
int  yygetSTDCdebug ( void ) ;  
void yysetSTDCdebug ( int  debugSTDCflag ) ;  
INTSTDCEXTRASTDCTYPE yygetSTDCextra ( void ) ;
```

```
void yysetSTDCextra ( INTSTDCEXTRASTDCTYPE  
userSTDCdefined ) ;  
FILE * yygetSTDCin ( void ) ;  
void yysetSTDCin ( FILE * inSTDCstr ) ;  
FILE * yygetSTDCout ( void ) ;  
void yysetSTDCout ( FILE * outSTDCstr ) ;
```



```
int  yygetSTDCleng ( void ) ;  
char * yygetSTDCtext ( void ) ;  
int  yygetSTDClينو ( void ) ;  
void yysetSTDClينو ( int lineSTDCnumber ) ;
```

```

23 ifndef INTSTDCSKIPSTDCYYWRAP 23 ifdef
STDCSTDCplusplus extern C int n ( void );
23 else
extern int n ( void );
23 endif 23 endif
23 ifndef yytext static void yySTDCflexSTDCstrncpy ( char
*, const char *, int );

```

```
23 endif
23 ifdef INTSTDCNEEDSTDCSTRLEN static int
yySTDCflexSTDCstrlen ( const char * );
23 endif
23 ifndef INTSTDCNOSTDCINPUT
23 endif
```

```
23 #ifndef INTSTDCREADSTDCBUFSTDCSIZE 23 #ifdef
STDCSTDCia64STDCSTDC
STDCREADSTDCBUFSTDCSIZE 16384
23 else
STDCREADSTDCBUFSTDCSIZE 8192
23 #endif
23 #endif
```

```
23 #ifndef INTSTDCSTARTSTDCSTACKSTDCINCR
STDCSTARTSTDCSTACKSTDCINCR 25
23 #endif
23 #ifndef INTSTDCDECL STDCDECLSTDCISSTDCOURS 1
extern int yylex ( void );
```

```
STDCDECL int yylex ( void )
```

```
23 endif
```

```
23 undef INTSTDCNEWSTDCFILE 23 undef
```

```
INTSTDCFLUSHSTDCBUFFER 23 undef yySTDCsetSTDCbol
```

```
23 undef yySTDCnewSTDCbuffer
```

```
23 undef yySTDCsetSTDCinteractive 23 undef  
INTSTDCDOSTDCBEFORESTDCACTION  
23 ifdef INTSTDCDECLSTDCISSTDCOURS 23 undef  
INTSTDCDECLSTDCISSTDCOURS 23 undef INTSTDCDECL 23  
endif  
23 line 159
```

23 line 334

23 undef HEADERSTDCHEADER 23 endif



