

Chapter 1

Introduction to JavaCC

1.1 JavaCC and Parser Generation

JavaCC is a parser generator and a lexical analyzer generator. Parsers and lexical analysers are software components for dealing with input of character sequences. Compilers and interpreters incorporate lexical analysers and parsers to decipher files containing programs, however lexical analysers and parsers can be used in a wide variety of other applications, as I hope the examples in this book will illustrate.

So what are lexical analysers and parsers? Lexical analysers can break a sequence of characters into a subsequences called *tokens* and it also classifies the tokens. Consider a short program in the C programming language.

```
int main() {  
    return 0 ;  
}
```

The lexical analyser of a C compiler would break this into the following sequence of tokens

```
"int", " ", "main", "{", "(", ")",  
" ", "{", "\n", "\t", "return"  
" ", "0", " ", ";", "\n",  
"}", "\n", ""
```

The lexical analyser also identifies the *kind* of each token; in our example the sequence of

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