

COMPILER DESIGN

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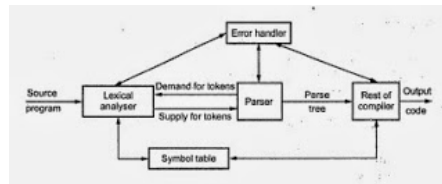
e-BOOKS



THE ROLE OF A PARSER

Posted by srinu vasu on 10:01 AM with [No comments](#)

In this process of compilation the parser and lexical analyzer work together. That means, when parser required string of tokens it invokes lexical analyzer. In turn, the lexical analyzer supplies tokens to syntax analyzer (parser).



The parser collects sufficient number of tokens and builds a parse tree. Then by building the parse tree, parser smartly finds the syntactical errors if any. It is also necessary that the parse should recover from commonly occurring errors so that remaining task of process the input can be continued.

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Tokens, patterns and lexemes

Token: Token is a sequence of characters that can be treated as a single logical entity. Typical tokens are, ...

The Role of the lexical analyzer
The main task is to read the input characters and produce as output sequence of tokens that the parser uses for syntax ...

Transition diagram for recognition of tokens
Recognition of tokens:

We learn how to express pattern using regular e...

The Role of a Parser
In this process of compilation the parser and lexical analyzer work together. That means, when parser required string of tokens it invoc...

compiler design by A.A.Putambekar
A.A.Puntambekar Technical Publications, 01-Jan-2010 - Compilers (Computer programs) - 461 pages
Overview of Compilation : Phases of comp...

Lexical error

Lexical error include misspellings of identifiers, keywords, or operators
Example:- the use of an identifier ellipse size instead of...

Regular expression

Regular expressions are mathematical symbolism which describe the set of strings of specific language. It provides convenient and usefu...

preprocessor

A preprocessor produce input to compilers. They may perform the following functions. 1. Macro

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processing: A preprocessor may allow a

...



Overview of language processing

A hardware device designed or used to perform tasks, such as processing program code to machine code. Language processors are found in la...

Program for recursive decent parsing
#include<stdio.h> #include<ctype.h>
#include<stdlib.h> #include<string.h>
#define SIZE 128 #define NONE -1 #...

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FIRST AND FOLLOWS

Classification of parsing
Techniques

The Role of a Parser

Syntax Analysis

Aho Alfred V.Pearson Education
India, 1999 - 796 p...

A.A.PuntambekarTechnical
Publications, 01-Jan-2009...

compiler design by
A.A.Putambekar

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