User Manual

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April 27, 2018

Overview

This manual will walk you through how to use this compiler to compile the mini Pascal code into MIPS assembly language.

First locate the <u>compiler.jar</u> file in the <u>product</u> folder, then locate the .pas file to be compiled. The .pas will be the mini Pascal file you would be compiling. You will want to put both files in the same directory and navigate to that directory from the command line using the following command:

java –jar compiler.jar input.pas

Next, an assembly file should be generated called input.asm. You would then need to open the input.asm file into QtSpim and run the file by clicking the green arrow toward the top of the program.

Possible Errors:

If there are any errors within, they may include the following:

- 1) There is no file name entered while entering commands through the terminal
- 2) There may be an error in the code and if there is the code generation cannot happen. There could be semantic errors that would be caught and send out an error message explaining the issue.
- 3) There could be an empty file
- 4) There could be an error with the arrangement of words an phrases, and an error will explain what was expected

TokenTypes

Our small Pascal keywords and symbols, the definitive list.

	KEYWORDS		SYMBOL	S
1)	and	AND	;	 SEMICOLON
2)	array	ARRAY	,	COMMA
3)	begin	BEGIN	•	PERIOD
4)	div	DIV	:	COLON
5)	do	DO	[LEFTBRACE
6)	else	ELSE]	RIGHTBRACE
7)	end	END	(LEFTPARA
8)	function	FUNCTION)	RIGHTPARA
9)	if	IF	+	PLUS
10)	integer	INTEGER	_	MINUS
11)	mod	MOD	=	EQUAL
12)	not	NOT	<>	NOTEQUAL
13)	of	OF	<	LESSTHAN
14)	or	OR	<=	LESSTHANEQUAL
15)	procedure	e PROCEDURE	>	GREATERTHAN
16)	program	PROGRAM	>=	GREATERTHANEQUAL
17)	real	REAL	*	ASTERISK
18)	then	THEN	/	SLASH
19)	var	VAR	:=	ASSIGN
20)	while	WHILE		
21)	multiply	MULTIPLY		