## INFO-F403 Introduction to Language Theory and Compilation

Chapeaux Thomas Dagnely Pierre

February 22, 2013

Lexical units	regular expressions
INT	(UNARY + UNARY -)(0+1+2+3+4+5+6+7+8+9)*
FLOAT	(UNARY + UNARY -)(0+1+2+3+4+5+6+7+8+9)*.DOT.(0+1+2+3+4+5+6+7+8+9)*
BOOL	(0+1)
STRING (?)	'∑'
VALUE	INT + FLOAT + BOOL + STRING
VARIABLE	\$STRING
OPERATOR	! + * + / + - + +
OPERATOR-COMP	<+>+<=+>=++=++=++++++++++++++++++++++++
UNARY+	+
UNARY-	-
EQUAL	=
DOT	
SEMICOLON	;
COMA	,
AND	&
OPEN-PAR	
CLOSE-PAR	
OPEN-BRAC	{
CLOSE-BRAC	}
DOLLAR	\$
OPEN-COND	IF
CLOSE-COND	ELSE
ADD-COND	ELSE IF
NEG-COND	UNLESS
RETURN	return
FUNCT-CREATION	SUB
FUNCTION-NAME (?)	string
FUNCT-CALL	&STRING
PERL-FUNCT-NAME	defined + int + length + scalar + substr + scalar + substr + print
COMM	#.STRING

EXPRESSION (?)	VARIABLE OPERATOR VARIABLE
	EXPRESSION OPERATOR VARIABLE
EXPRESSION-COND (?)	VARIABLE OPERATOR-COMP VARIABLE
	EXPRESSION OPERATOR-COMP VARIABLE
ASSIGNATION	VARIABLE EQUAL VALUE
CONDITION (?)	((OPEN-COND+NEG-COND)EXPRESSION-COND OPEN-BRAC INSTRUCTIONS* CLOSE-BRAC
	(ADD-COND EXPRESSION-COND OPEN-BRAC INSTRUCTIONS* CLOSE-BRAC)*
	(CLOSE-COND EXPRESSION-COND OPEN-BRAC INSTRUCTIONS* CLOSE-BRAC))
	+ EXPRESSION (OPEN-COND + NEG-COND) EXPRESSION-COND
INSTRUCTIONS	((CONDITION SEMICOLON)* + (EXPRESSION SEMICOLON)* + (FUNCTION-CALL
	$SEMICOLON)^* + (ASSIGNATION SEMICOLON)^*)^*$
PARAM	DOLLAR VARIABLE (COMA DOLLAR VARIABLE)*
USER-FUNCT-CALL	AND FUNCTION-NAME (OPEN-PAR CLOSE-PAR + OPEN-PAR PARAM CLOSE-PAR
	+ PARAM) SEMICOLON
PERL-FUNCT-CALL	defined EXPRESSION + int EXPRESSION + length EXPRESSION
	scalar EXPRESSION + substr EXPRESSION COMA INT COMA INT
	scalar EXPRESSION + substr EXPRESSION COMA INT
	+ print (?liste de string)
FUNCTION-CALL	USER-FUNCT-CALL + PERL-FUNCT-CALL
FUNCTION	FUNCTION-ID FUNCTION-NAME (OPEN-PAR CLOSE PAR + OPEN-PAR PARAM CLOSE-PAR)
	OPEN-BRAC INSTRUCTIONS (RETURN EXPRESSION + RETURN EXPRESSION-COND
	+ RETURN VARIABLE) SEMICOLON CLOSE-BRAC
FUNCTION-LIST	FUNCTION*
PROGRAM	(FUNCTION-LIST + INSTRUCTIONS)*

(slide 13)