Start
↓
Function_declaration

Dec-Specifiers
↓
Type-specifier
↓
INT
↓
int

IDENTIFIER
↓
main

LEFTPARANTHESIS
↓
C

RIGHTPARANTHESIS
↓
)

Body-proto

LEFTCURLY
↓
{

Statement-list
↓
Statement
↓
Object_declaration

RIGHTCURLY
↓
}

Rec-specifier
↓
PROC
↓
proc

IDENTIFIER
↓
process1

ASGN-OP
↓
=

Object-expression
↓
Cluster_object
↓
processor_object

SEMI_COLON
↓
;

PROCESSOR   LEFTPARANTHESIS   RIGHTPARANTHESIS   isa_args   COMMA   Clockargs
↓   ↓
ISA   ASGN-OP   PROC-TYPE   ,
is-a   =   'AMD'   COMMA
                                                                     ↓
                                                                     ;

mem-args

CLOCK-SPEED   ASGN-OP   CONSTANT   nargp
clock_speed   =   40
↓
memory

memory

narp.

COMMA   NAME   ASGN-OP   Conditional-expression   RIGHT PARANTHESI

$\downarrow$ $\downarrow$ $\downarrow$ $\downarrow$:

,   name.   =   postfix-expression   )

$\downarrow$

primary-expression

$\downarrow$

STRING-LITERAL

$\downarrow$

processor 1

IDENTFIER.

$\downarrow$

mem1.