

Variable	$f, x$			Initial lower-case letter
Constructor	$C$			Initial upper-case letter
Literal	$lit$	$::=$	$i \mid d$	Integral or floating point type
Atom	$a$	$::=$	$lit \mid x$	
Expression	$e$	$::=$	$a$ $ $ $f \ a_1 \dots a_n$ $ $ $\oplus \ a_1 \dots a_n$ $ $ $\text{let } x = obj \text{ in } e$ $ $ $\text{case } e \text{ as } x \text{ of } alt_i$	Atom Function application, $n \geq 1$ Saturated primitive operation, $n \geq 1$ Case expression, $1 \leq i \leq n$
Alternatives	$alt$	$::=$	$C \ x_1 \dots x_n \rightarrow e$ $ $ $\_ \rightarrow e$	Pattern match, $n \geq 0$ Default
Heap objects	$obj$	$::=$	$\text{FUN } x_1 \dots x_n \rightarrow e$ $ $ $\text{CON } C \ a_1 \dots a_n$ $ $ $\text{THUNK } e$ $ $ $\text{PAP } f \ a_1 \dots a_n$ $ $ $\text{BLACKHOLE}$	Function definition, arity = $n \geq 1$ Saturated constructor, $n \geq 0$ Thunk Evaluation-time partial application Evaluation-time black hole
Program	$prog$	$::=$	$f_i = obj_i$	$n \geq 1$ , distinguished <i>main</i>