

Ling binary module format

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The document describes a binary compression scheme specifically designed for the “specs” representation of the module. A module represented as specs consists of a stream of elements given in the Table 1.

Element	Constraints
N	$4294967296 > N \geq 0$
{opcode,N}	$1024 > N \geq 0$
{atom,N}	$1048576 > N \geq 0$
{bif,N}	$65536 > N \geq 0$
{catch,N}	$65536 > N \geq 0$
{export,N}	$16777216 > N \geq 0$
{reg.as.term,X}	$256 > X \geq 0$
{slot.as.term,Y}	$16777216 > Y \geq 0$
{tag.int,I}	$268435455 > I \geq -268435456$
{literal,N}	$16777216 > N \geq 0$
{f,none}	-
{f,O}	$4294967296 > N \geq 0$
nil	-
{fu,N}	$16777216 > N \geq 0$

Table 1 Elements of the module specs stream.

Note that BIF references are always in the beginning of the import table and thus the index cannot exceed the total number of BIFs supported by the system.