WebAssembly

C input source	Linear assembly bytecode (intermediate representation)	Wasm binary encoding (hexadecimal bytes)

`int factorial(int n) {`
`  if (n == 0)`
`  return 1;`
`  else`
`  return n * factorial(n-1);`
`}`
	`get_local 0`
	`i64.eqz`
	`if (result i64)`
	`  i64.const 1`
	`else`
	`  get_local 0`
	`  get_local 0`
	`  i64.const 1`
	`  i64.sub`
	`  call 0`
	`  i64.mul`
	`end`
		`20 00`
		`50`
		`04 7E`
		`42 01`
		`05`
		`20 00`
		`20 00`
		`42 01`
		`7D`
		`10 00`
		`7E`
		`0B`

The WebAssembly text format can also be written in a folded format using s-expressions. This format is purely syntactic sugar and has no behavioral differences with the linear format.[58] An example is shown below:

```
(module
  (import "math" "exp" (func $exp (param f64) (result f64)))
  (func (export "doubleExp") (param $0 f64) (result f64)
    (f64.mul
      (call $exp
        (get_local $0)
      )
      (f64.const 2)
    )
  )
)
```