

```

load'32-bit-adder.ijs'
test
    0          1 0
   _1         1 0
   _1         1 1
4294967295    1 0
_4294967296   1 0
4294967295    2 0
_4294967296   _1 0
4294967295 4294967295 0
_4294967296 _4294967296 0
    3          2 1
test ,. thirtytwoBitALU rows test
    0          1 0 1
   _1         1 0 0
   _1         1 1 _2
4294967295    1 0 0
_4294967296   1 0 1
4294967295    2 0 1
_4294967296   _1 0 _1
4294967295 4294967295 0 _2
_4294967296 _4294967296 0 0
    3          2 1 1
load'32-bit-adder.ijs'
test ,. thirtytwoBitALU rows test
    0          1 0      1
   _1         1 0 _4294967296
   _1         1 1      _2
4294967295    1 0 _4294967296
_4294967296   1 0      1
4294967295    2 0 _4294967295
_4294967296   _1 0 4294967295
4294967295 4294967295 0      _2
_4294967296 _4294967296 0      0
    3          2 1 _4294967295

-·
-·
-· - -·
-·
v =: ? 1000000
log
|value error: log
jhelp'netscape'

<. 3.4
3
<. _3.4
_4
1+<. 2 ^. v
20
(0,20#2)rep v
0 1 1 0 1 1 1 0 1 0 0 1 1 1 0 1 0 0 0 1 0

```

```
(0,19#2)rep v
1 1 0 1 1 1 0 1 0 0 1 1 1 0 1 0 0 0 1 0
y. =: v
e =. 1 + floor log2 | y. + y. = 0
|value error: log2
| e=.1+floor      log2|y.+y.=0
log2 =: 2&^.
floor =: <.
log2 =: 2&^.
copy =: #
e =. 1 + floor log2 | y. + y. = 0
e
20
f =. 1 drop (24 copy 2) rep floor (2 ^ 24 - e) * | y.
f
1 0 1 1 1 0 1 0 0 1 1 1 0 1 0 0 0 1 0 0 0 0 0
se =. (9 copy 2) rep (y. not_equal 0) * (256 * y. < 0) + e + 126
se
0 1 0 0 1 0 0 1 0
se,f
0 1 0 0 1 0 0 1 0 1 0 1 1 1 0 1 0 0 1 1 1 0 1 0 0 0 1 0 0 0 0 0
fs2bin y.
|value error: fs2bin
| fs2bin y.
load'float.ijs'
fs2bin y.
0 1 0 0 1 0 0 1 0 1 0 1 1 1 0 1 0 0 1 1 1 0 1 0 0 0 1 0 0 0 0 0
ans =: fs2bin y.
y. =: ans
# 9 {. y.
9
# 9 }. y.
23
base
#.
base 1
1
(base 1 , 9 drop y.)
14498336
2 ^ 23
8.38861e6
(base 1 , 9 drop y.) % 2 ^ 23
1.72834
```