Floating Point Adder

extractor
- A
- B
- sa
- ea
- fa
- sb
- eb
- fb

norm_exp_mant
- ea_in
- fa
- eb_in
- fb
- ea
- eb
- ma
- mb

shift_selector
- ea
- eb
- ma
- mb
- sa
- sb
- exp_out
- shift_amt
- m_big
- m_sml
- s_big
- s_sml

sticky_shifter
- shift_amt
- m_sml
- m_sml_out

add_subtract
- s_big
- s_sml
- m_big
- m_sml
- sign
- mant

normalization
- exp
- mant
- exp_out
- mant_out

rounding
- exp
- mant
- exp_out
- mant_out

normalization2
- sign
- exp
- mant
- float

exceptions
- sa
- ea
- fa
- sb
- eb
- fb
- no_except
- res

MUX

res

x16