Fetch vertex data
meshgen.v

WISHBONE master

3 source vertex coordinates

3 destination vertex coordinates

Reorder vertices
reorder.v

3 source vertex coordinates

3 ordered destination vertex coordinates

Compute division operands
edgedivops.v

Divide
edgediv.v

Control interface
ctlif.v

CSR

Performance counters
perfcounters.v

Interpolate on edges
edgetrace.v

Source and destination coordinates for each intersection
between triangle edges
and horizontal lines

Compute division operands
scandivops.v

Divide
scandiv.v

Interpolate on scanlines
scantrace.v

Source and destination coordinates for each triangle point

Filter off-screen points
filter.v

Generate DMA addresses
addresses.v

Pixel input cache
pixin.v

FML master

Decay effect
decay.v

Assemble FML bursts
burst.v

Pixel output
pixout.v

FML master