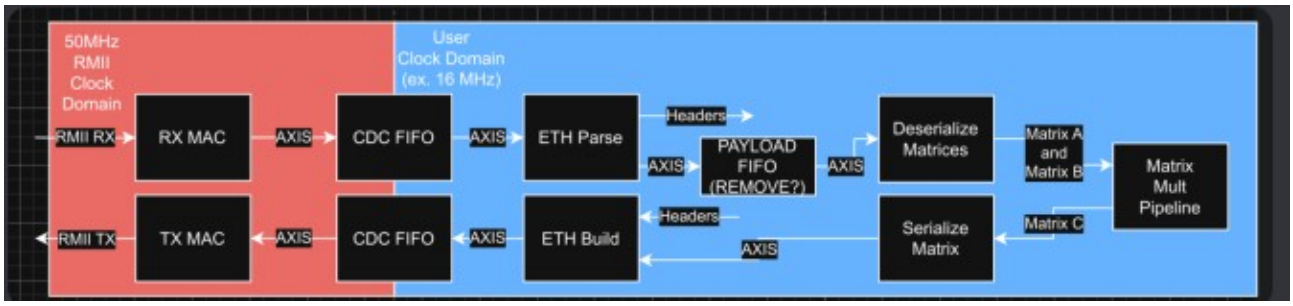
**********Default**********

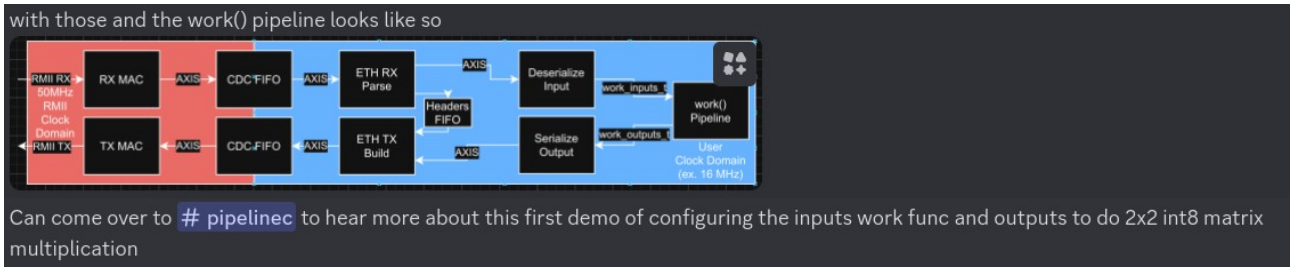
PipelineC Ethernet PMOD

02/28/25

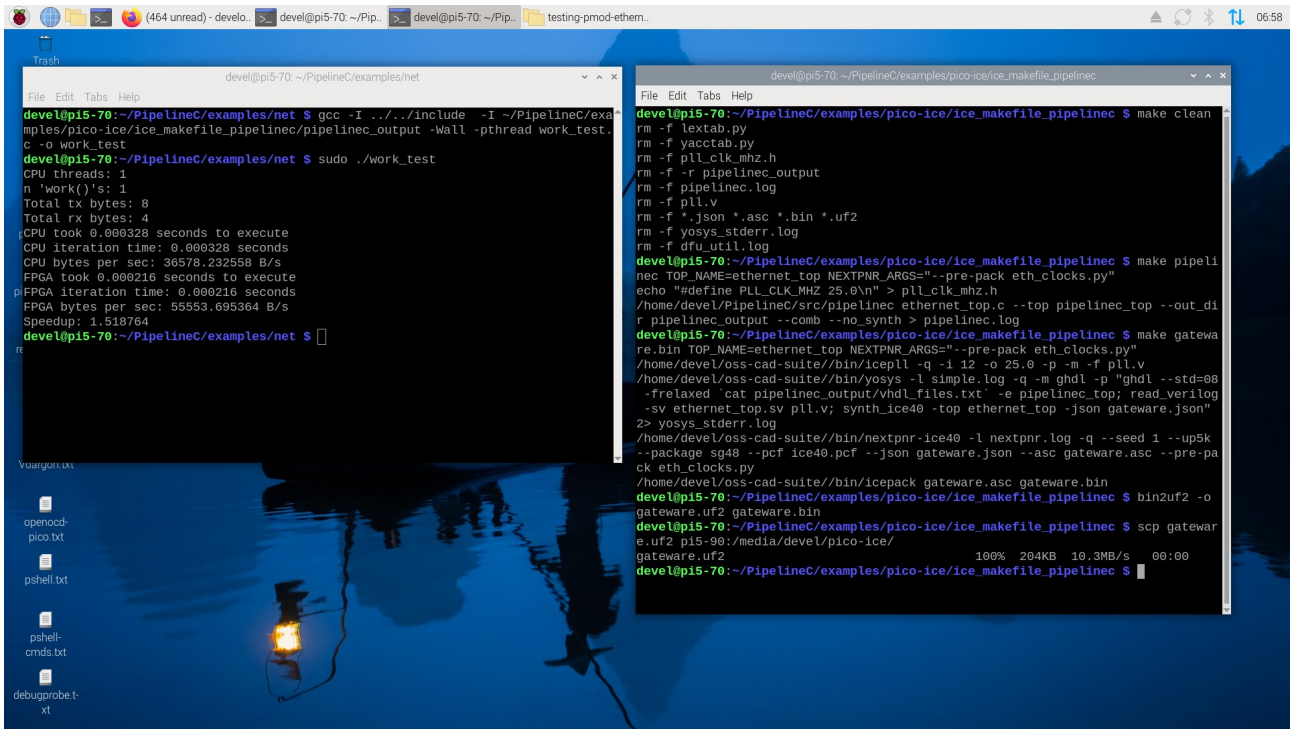
**********Default**********

The current image which does work in the form matrix multiply.

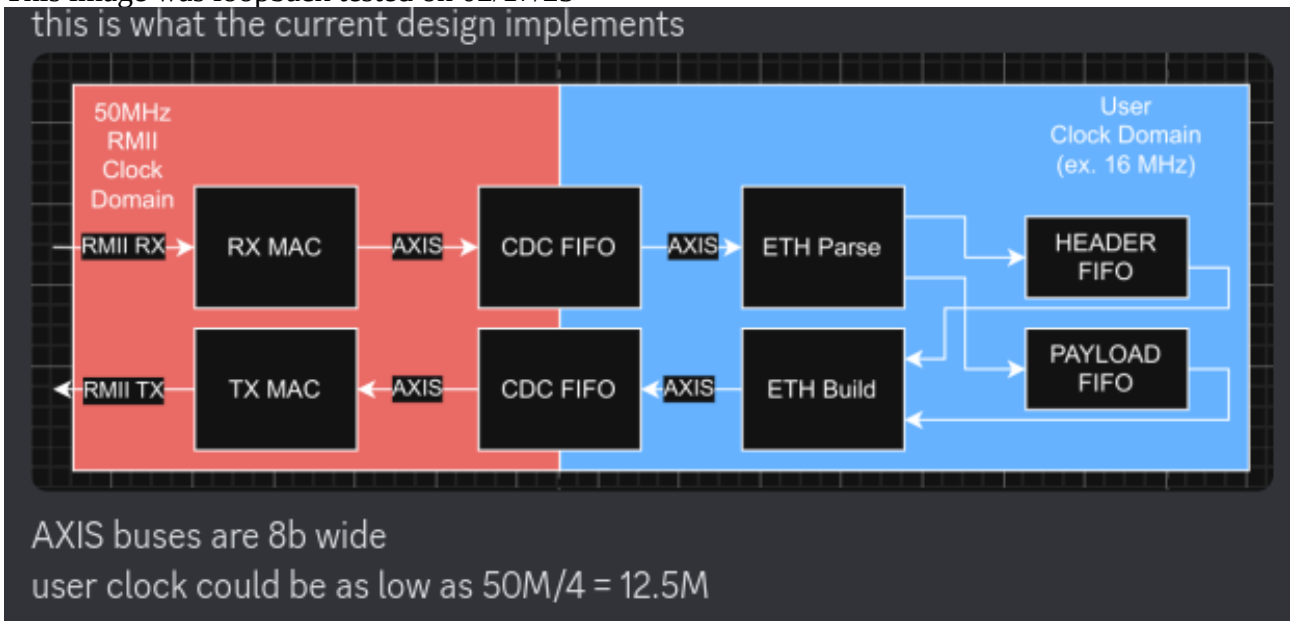




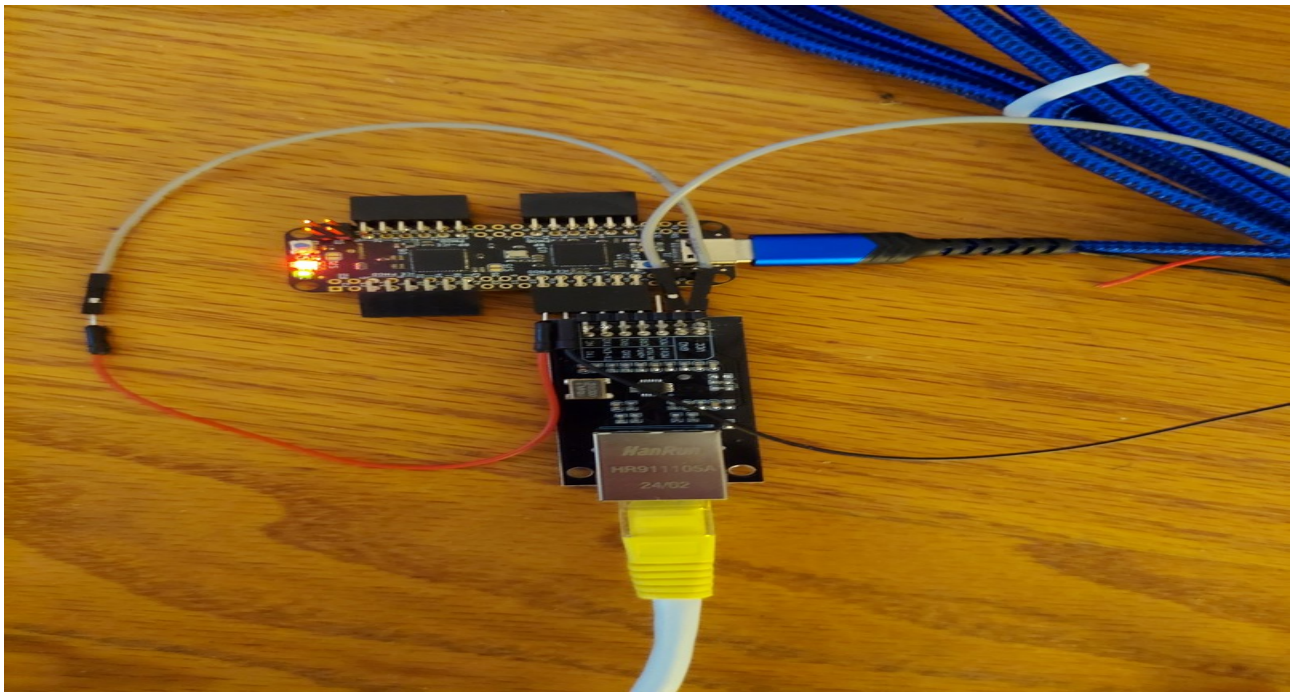
Tested 02/28/25 in PipelineC repo.



This image was loopback tested on 02/17/25



pico-ice Running gateware.bin provided by Discord user absurfatalism. Led blink red.
This was fixed with added make parameters.
make clean
make pipelinec TOP_NAME=ethernet_top NEXTPNR_ARGS="--pre-pack eth_clocks.py"
make gateware.bin TOP_NAME=ethernet_top NEXTPNR_ARGS="--pre-pack eth_clocks.py"
bin2uf2 -o gateware.uf2 gateware.bin
scp gateware.uf2 pi5-90:/media/devel/pico-ice/



3.3 grd A4 A3 A2 A1

3.3 grd B4 B3 A2 B1

pico-ice

3.3 grd A4 A3 A2 A1

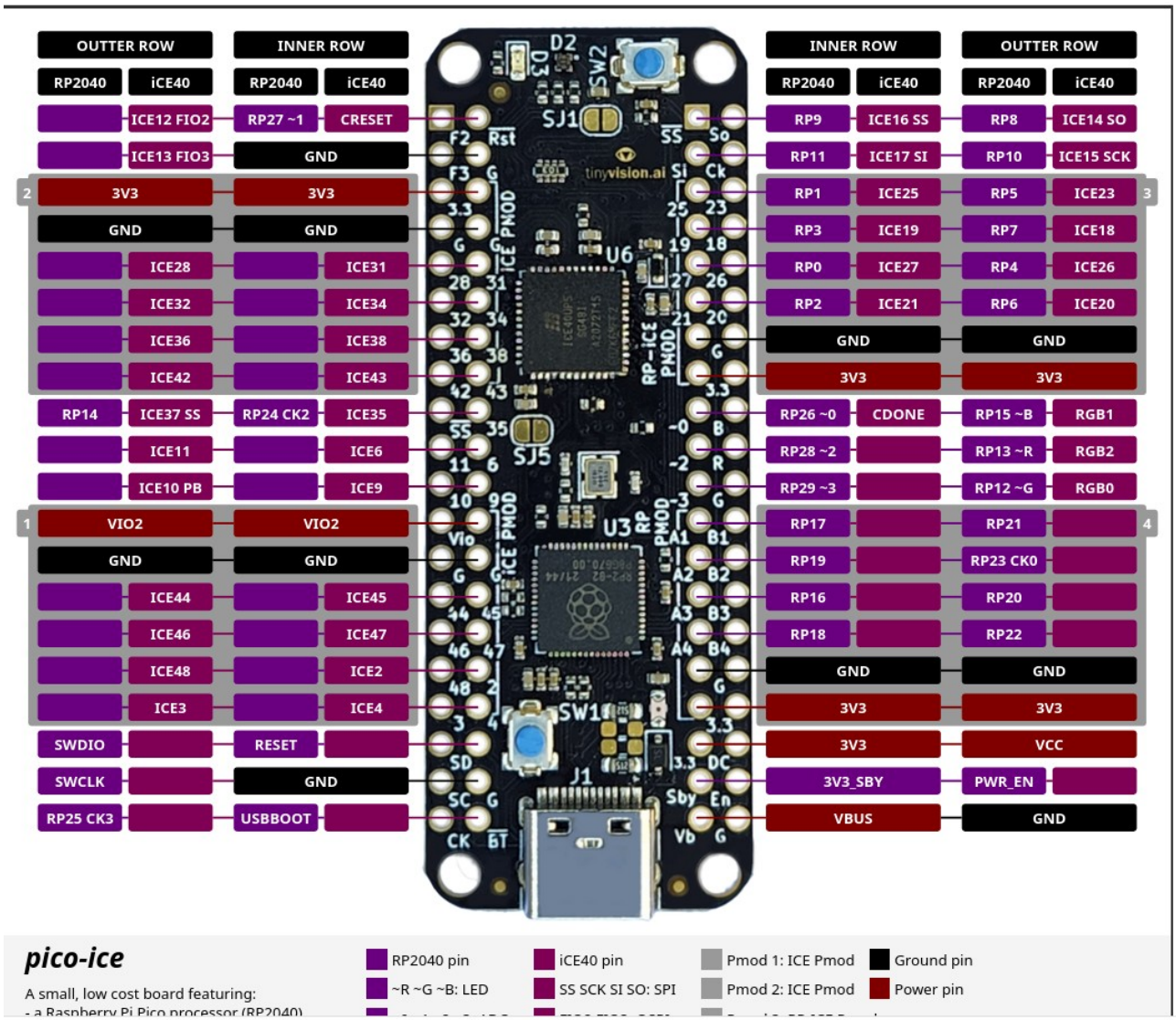
3.3 grd B4 B3 B2 B1

A1-43	B1-42
A2-38	B2-36
A3-34	B3-32
A4-31	B4-28

A1-4	B1-3
A2-2	B2-48
A3-47	B3-46
A4- 45	B4-44

USB

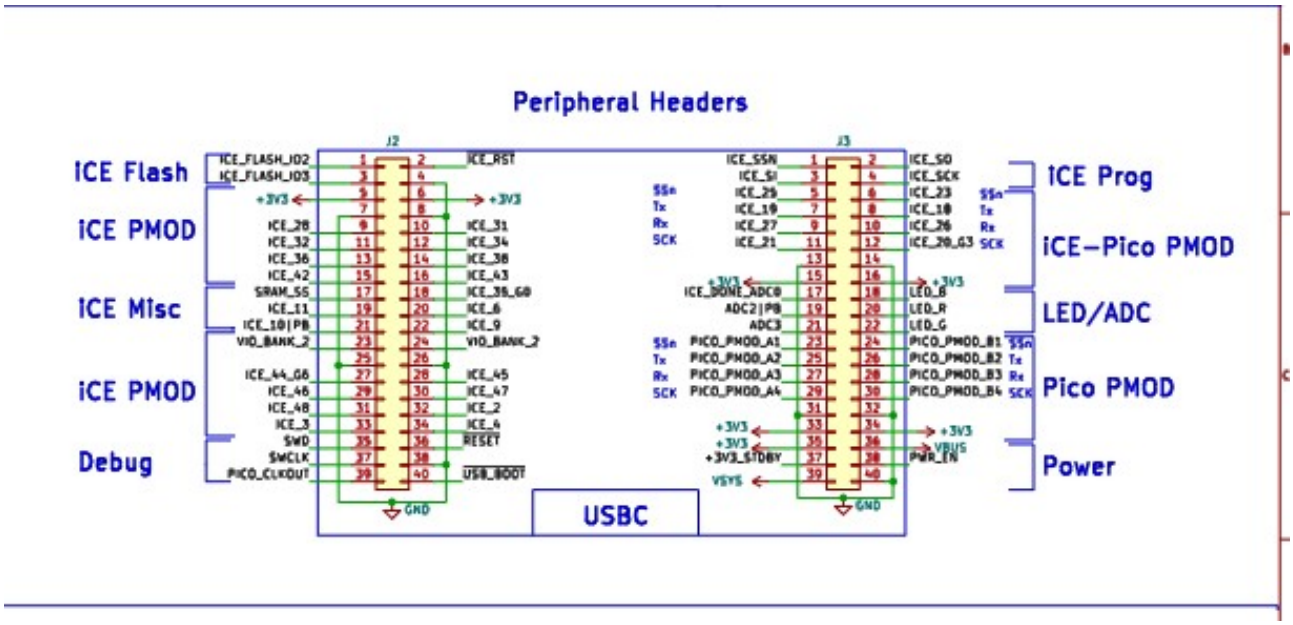
xx



raspberry-pi-5 devel@pi5-90:~/PipelineC/examples/arty/src/eth $ sudo ./loopback_test

pico-ice with Ethernet pmod devel@pi5-90:~/PipelineC/examples/arty/src/eth $ sudo ./loopback_test
Test passed!

sch



sch

pi5-70 or pi5-80
devel@pi5-80:~/pico-ice/PipelineC/pmod-ethernet/ice_makefile_pipelinec $
devel@pi5-70:~/pico-ice/PipelineC/pmod-ethernet/ice_makefile_pipelinec $
make clean
make pipelinec TOP_NAME=ethernet_top NEXTPNR_ARGS="--pre-pack eth_clocks.py"
make gateware.bin TOP_NAME=ethernet_top NEXTPNR_ARGS="--pre-pack eth_clocks.py"
bin2uf2 -o gateware.uf2 gateware.bin
scp gateware.uf2 pi5-90:/media/devel/pico-ice/
devel@pi5-90:~/PipelineC/examples/arty/src/eth $ sudo ./loopback_test
Test passed!