

Instruction Interface

rvalid addr

Data Interface

addr grant rvalid

Prefetch
Buffer

valid

if_ready

if_valid

Forwarding
Control

!stall

id_ready

id_valid

LSU

granted

ex_ready

ex_valid

rvalid

wb_ready

IF
ID

C
E

ID
EX

C
E

EX
WB

C
E