Optimized Generated $stencil.field_access$ $stencil.get_value$ stencil.var_access 100% 80% 60% 40% 20% 0% 20 80 100 120 0 15 25 20 100 120 20 60 5 10 60 80 stencil.write std.sitofp std.addf 100% 80% 60% 40% 20% 0% 50 60 -0.4**-**0.2 0.0 0.2 20 25 30 0.4 10 30 40 15 20 10 std.cmpf std.divf std.mulf 100% 80% 60% 40% 20% 0% 20 15 15 10 10 20 80 60 40 std.select std.subf stencil.sqrtf 100% 80% 60% 40% 20% 0% 30 15 10 40 20 0.0 20 50 10 0.5 1.0 1.5 2.0 stencil.pow std.constant register_usage 100% -80% 60% 40% 20% 0%

25

20

15

10

30

120

100

80

2.5

2.0

1.5

0.0

0.5

3.0