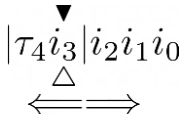


Butterfly Stage



Global Address of $a[m]$

$m = i_4 i_3 i_2 i_1 i_0$

$|i_4 i_3| i_2 i_1 i_0$

$P_{00} = P_{i_4 i_3}$

|00|000

|00|001

|00|010

|00|011

|00|100

|00|101

|00|110

|00|111

a[0]

a[1]

a[2]

a[3]

a[4]

a[5]

a[6]

a[7]

P0 and P1 send each other a copy of their own data

$P_{01} = P_{i_4 i_3}$

$|i_4 i_3| i_2 i_1 i_0$

a[8]

a[9]

a[10]

a[11]

a[12]

a[13]

a[14]

a[15]

|01|000

|01|001

|01|010

|01|011

|01|100

|01|101

|01|110

|01|111