

assign(y, **mask**, f, x, min)

x[0 .. 2]

x[3 .. 5]

x[6 .. 8]

f[0 .. 2]

f[3 .. 5]

f[6 .. 8]

y[2]

y[3]

y[4]

mask={2,3,4}, replicated
on all the processes through
MPI_Allgatherv

⇔

MPI_Allreduce()

internally, perform extract
and MPI_Allreduce to syn-
chronize all the masked en-
tries in y

i	0	1	2	3	4	5	6	7	8
f[i]	4	2	2	3	4	2	4	3	4