Parallel Inner Dot

In[42]:=
```
(* Parallel Inner Dot *)
serialDot[x_, y_] := Total[x * y];
RandomSeed[Prime[$IdProc + 1]];
x = ParallelTable[RandomInteger[{1, 10}], {i, 1, 32}];
y = ParallelTable[RandomInteger[{1, 10}], {i, 1, 32}];
mpiReduce[serialDot[x, y], sum, mpiSum, 0, mpiCommWorld];
Print[sum]
```

```
690
```

In[43]:=
```
(* here the operation "." is the InnerDot *)
Flatten[mpiGather[x], 1].Flatten[mpiGather[y], 1]
```

Out[43]= 690