

Sparse global vector

X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Local sparse sub-matrix

				X		X			X						
					X		X		X				X	X	
X				X		X			X						
							X	X					X		

Reordering of the
local sparse matrix



Compressed global vector

Local sub-vector				Shared sub-vector					
X	X	X	X	X	X	X	X	X	X
4	5	6	7	1	8	9	13	14	

Reordered local sparse sub-matrix

X		X					X		
	X		X				X	X	X
X		X		X		X	X		
			X		X		X	X	