





















































Pseudo Code for Phase1	
• Each PE has two threads: Thread 1: for $(j = 1; j \le \{R/N\}; j++)$ { read j-th tuple t and attribute value v in t; x = hO(v); /* e.g. $h(v) = mod(v, N)$ */	
send <i>t</i> to PE <sub>x</sub> } Thread 2	
for (;;) { receive t and attribute value v in t; y = h1(v);	
<ul> <li>write t into a file for y</li> <li>}</li> <li>It should be combined with the phase switch of all-to-all communication</li> </ul>	
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