

	Phase 1			Phase 2		
thread _{0,0}	$M_{0,0}$ ↓ $Mds_{0,0}$	$N_{0,0}$ ↓ $Nds_{0,0}$	$PValue_{0,0} +=$ $Mds_{0,0} * Nds_{0,0} +$ $Mds_{0,1} * Nds_{1,0}$	$M_{0,2}$ ↓ $Mds_{0,0}$	$N_{2,0}$ ↓ $Nds_{0,0}$	$PValue_{0,0} +=$ $Mds_{0,0} * Nds_{0,0} +$ $Mds_{0,1} * Nds_{1,0}$
thread _{0,1}	$M_{0,1}$ ↓ $Mds_{0,1}$	$N_{0,1}$ ↓ $Nds_{1,0}$	$PValue_{0,1} +=$ $Mds_{0,0} * Nds_{0,1} +$ $Mds_{0,1} * Nds_{1,1}$	$M_{0,3}$ ↓ $Mds_{0,1}$	$N_{2,1}$ ↓ $Nds_{0,1}$	$PValue_{0,1} +=$ $Mds_{0,0} * Nds_{0,1} +$ $Mds_{0,1} * Nds_{1,1}$
thread _{1,0}	$M_{1,0}$ ↓ $Mds_{1,0}$	$N_{1,0}$ ↓ $Nds_{1,0}$	$PValue_{1,0} +=$ $Mds_{1,0} * Nds_{0,0} +$ $Mds_{1,1} * Nds_{1,0}$	$M_{1,2}$ ↓ $Mds_{1,0}$	$N_{3,0}$ ↓ $Nds_{1,0}$	$PValue_{1,0} +=$ $Mds_{1,0} * Nds_{0,0} +$ $Mds_{1,1} * Nds_{1,0}$
thread _{1,1}	$M_{1,1}$ ↓ $Mds_{1,1}$	$N_{1,1}$ ↓ $Nds_{1,1}$	$PValue_{1,1} +=$ $Mds_{1,0} * Nds_{0,1} +$ $Mds_{1,1} * Nds_{1,1}$	$M_{1,3}$ ↓ $Mds_{1,1}$	$N_{3,1}$ ↓ $Nds_{1,1}$	$PValue_{1,1} +=$ $Mds_{1,0} * Nds_{0,1} +$ $Mds_{1,1} * Nds_{1,1}$

time \longrightarrow