	Master	Worker 1	Worker 2	Worker 3	Worker 4	Description	
manie alist	tacke	P1, P2	P1, P2	P2	P2, P3	Initial Contents	
receive client	(A)	^	1	1	1 >	Start Map	
		rands to workers Commands				Master tells worker servers to start the map phase, providing the map function.	
		mapResult for process of the process	Empty Hard	mapResult Tesult = P2 Hi, I Hello, I person, I	mapResult PEULT: P; do , 1 does, 1. hi , 1	Workers Perform Map Workers execute the map task and store their results in the mapResult file. Then, they inform the master server that the map task has been completed. If a worker server is not used, leave the box blank.	
Yetun may	tate_	V Paths	Pathy	/ Whiths	· V laths	Start Shuffle	
i's true, and tells me	,	ner the po	ath of may	results.		Master tells worker servers to start the shuffle phase.	
		A avacat		e Texpute	1'execute	Workers Perform Shuffle	
send shuffle		Lesson	, 1	e hi,		Workers send the map results to each other, based on the hashcode of the key. Workers store these results in another file. Then, they inform the master server when they are done.	
tell maste			V done	V done	V done	If a worker server is not used, leave the	
server done return shuf Convinanol	fle	shuffleResult QM, PEISON, PEISON,	Itello, I	hi, I	do , (box blank.	
master sen reduce com to worker	nands	1 Reduce	1 Redug	Reduc		Start Reduce Master tells worker servers to start the reduce phase, providing the reduce function.	
to worker	>	finalResult	finalResult	finalResult	finalResult	Workers Perform Reduce	
		am, 1 person, 2	hello, 1	hi, 2	do-1	Workers execute the reduce task, creating a new file with the final results of the map-reduce task. Then, they inform the master server they are done, providing the file location	
return pa	th	1 1	1-1-0	1 10	1 dore	of the result.	
of the final n	esult	V done	Idore	y doe	Vaore	In this case, the file location is always the same for simplicity.	
file, Master							
they are done checking the		e State.		7			
0							

