

With Local Aggregation							
Step	Input To Map	Map To Combiner	Records (Size)			Total Records	Total Size
			Combiner To Reducer	Reducer Groups	Reducer Output		
Word Counter	163,471,963 (~1.6 GB)	100,462,054 (~1.8 GB)	1,283,194	743,842 (~17.2 MB)	743,842 (~20.2 MB)	266,704,895	~3.4 GB
C1 Step	743,842 (~20.2 MB)	743,842 (~20.2 MB)	-	743,842 (~11.2 MB)	743,842 (~24.5 MB)	2,975,368	~56.8 MB
N1 Step	743,842 (~24.5 MB)	743,842 (~24.5 MB)	-	743,842 (~13.2 MB)	743,842 (~27.7 MB)	2,975,368	~65.9 MB
C2 Step	743,842 (~27.7 MB)	743,841 (~27.7 MB)	-	743,841 (~15.3 MB)	743,841 (~30.3 MB)	2,975,365	~74 MB
N2 Step	743,841 (~30.3 MB)	743,841 (~30.3 MB)	-	743,841 (~15.7 MB)	363,453 (~17.7 MB)	2,594,977	~65.2 MB
Final Step	363,453 (~17.7 MB)	363,453 (~17.7 MB)	-	363,453 (~11.2 MB)	363,453 (~17.7 MB)	1,453,812	~46.9 MB
Total Records	166,810,783	103,800,873	1,283,194	4,082,661	3,702,273	279,679,784	-
Total Size	~1.7 GB	~1.9 GB	-	~83.8 MB	~138.1 MB	-	~3.8 GB

No Local Aggregation							
Step	Input To Map	Map To Combiner	Records (Size)			Total Records	Total Size
			Combiner To Reducer	Reducer Groups	Reducer Output		
Word Counter	163,471,963 (~1.6 GB)	100,462,054 (~1.8 GB)	-	743,842 (~264.5 MB)	743,842 (~20.2 MB)	266,704,895	~3.6 GB
C1 Step	743,842 (~20.2 MB)	743,842 (~20.2 MB)	-	743,842 (~11.2 MB)	743,842 (~24.5 MB)	2,975,368	~56.8 MB
N1 Step	743,842 (~24.5 MB)	743,842 (~24.5 MB)	-	743,842 (~13.2 MB)	743,842 (~27.7 MB)	2,975,368	~65.9 MB
C2 Step	743,842 (~27.7 MB)	743,841 (~27.7 MB)	-	743,841 (~15.3 MB)	743,841 (~30.3 MB)	2,975,365	~74 MB
N2 Step	743,841 (~30.3 MB)	743,841 (~30.3 MB)	-	743,841 (~15.7 MB)	363,453 (~17.7 MB)	2,594,977	~65.2 MB
Final Step	363,453 (~17.7 MB)	363,453 (~17.7 MB)	-	363,453 (~11.2 MB)	363,453 (~17.7 MB)	1,453,812	~46.9 MB
Total Records	166,810,783	103,800,873	1,283,194	4,082,661	3,702,273	279,679,784	-
Total Size	~1.7 GB	~1.9 GB	-	~331.1 MB	~138.1 MB	-	~4 GB