

			gather	gatherv	reduce	reduce_scatter	reduce_scatterv	scatter	scatterv
SRC	info	buffer	v	v	v	v	v	v	
		count	v	v	v	v	v	v	
		datatype	v	v	v	v	v	v	
		mem_type	v	v	v	v	v	v	
	info_v	buffer							v
		counts							v
		displacements							v
		datatype							v
		mem_type							v
	DST	info	buffer	v		v	v		v
count			v		v	v		v	v
datatype			v		v	v		v	v
mem_type			v		v	v		v	v
info_v		buffer		v			v		
		counts		v			v		
		displacements		v					
		datatype		v			v		
		mem_type		v			v		
		root	v	v	v			v	v
INPLACE		src is ignored at root	src is ignored at root	src is ignored at root	src is ignored	src is ignored	dst is ignored at root	dst is ignored at root	
comments		dst only at root	dst only at root	dst only at root			src only at root	src only at root	