





































► Navigators ← FCUL Performance of I – T SMR								
In nice runs								
	Algorithm	LATENCY ComSteps	SignCP	VerifCP	Throughput MesgTot	SignTot	VerifTot	
1	Rampart	8	3	2(n-f) + n	$4n \oplus 3(n-1)$		$(n-f)n \oplus (n-f)(n-1)$	
2	BFT	5	0	0	$2n \oplus (n-1)(2n-1)$	0	0	
3	HQ	4	2	2(n-f)	4 <i>n</i>		(n+1)(n-f)	
4	BFT2F	5	2	2f	$2n \oplus (n-1)(2n-1)$	$(n+1)\oplus 0$	$n(2f+1)\oplus 0$	
5	Our alg.	5	0	0	$2n \left[+(n^3+n^2-n)\right]$	0	0	
Bad runs Algorithm Bad run Consequence								
	8 1 1						coordinator elections	
2	BFT Same as Rampart					Same as Rampart		
3	I					Change to BFT and run BFT		
-	HQ	BFT2F Same as Rampart/BFT					6	
4	BF12F	Same as	Rampart/	Same as Rampart/BFT				

Nothing (outside the wormhole)

4 BFT2F Our alg.

5

Not affected (outside the wormhole)















