

CIENCIA DE LA COMPUTACIÓN "Pthreads" Algoritmos Paralelos CCOMP 7-1

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"La alumna declara haber realizado el presente trabajo de acuerdo a las normas de la Universidad Católica San Pablo"

FIRMA

Tiempos de Lista Simple Enlazada Paralela

Especificaciones

100,000 ops/thread

99.9% Member

0.05% Insert

0.05% Delete

Tiempo en segundos

	Number of Threads			
Implementation	1	2	4	8
Read-Write Locks	0.213	0.123	0.098	0.115
One Mutex for Entire List	0.211	0.450	0.385	0.457
One Mutex per Node	1.680	5.700	3.450	2.700

Implementación	Numero de hilos			
	1	2	4	8
Read-Write	0.682828903198	0.344566106796	0.215972185134	0.243134021759
Locks	2422	2646	8877	0332
One Mutex for	0.674429178237	0.807137966156	1.351937055587	1.389462947845
Entire List	915	0059	769	459
One Mutex per	2.826874971389	1.720713853836	1.217756032943	1.581643819808
Node	771	06	726	96

Especificaciones

100,000 ops/thread

80% Member

10% Insert

10% Delete

Tiempo en segundos

	Number of Threads			
Implementation	1	2	4	8
Read-Write Locks	2.48	4.97	4.69	4.71
One Mutex for Entire List	2.50	5.13	5.04	5.11
One Mutex per Node	12.00	29.60	17.00	12.00

Implementación	Numero de hilos			
	1	2	4	8
Read-Write	1.058800220489	0.929205179214	0.901221036911	1.267345905303
Locks	502	4775	0107	955
One Mutex for	1.058229923248	1.162974119186	1.278278112411	1.292840957641
Entire List	291	401	499	602
One Mutex per	2.802820205688	1.616665840148	1.085551977157	2.581643819808
Node	477	926	593	96