variants (i.e., DLiSA-I and DLiSA-II) of over 100 run in system x264. Statistically significant discrepancies are shown in bold ( $\hat{A}_{12}>0.56$  and p value < 0.05), where green cells indicate that DLiSA performs better; or red cells otherwise. Workload Algorithm Mean (Std)  $\hat{A}_{12}$  (p value) DLiSA 0.890 (0.140) DLiSA-I W11.070 (0.963)  $0.648 \ (p < 0.001)$ DI iS A - II 0.054 (0.229) 0.567 (n = 0.100)

TABLE X: Performance comparison of DLiSA against its

	DLISA-II	0.754 (0.220)	0.307 (p - 0.100)
	DLiSA	3.590 (0.567)	
W2	DLiSA-I	4.130 (1.004)	<b>0.660</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	3.731 (0.789)	$0.524 \ (p = 0.562)$
	DLiSA	1.286 (0.248)	
W3	DLiSA-I	1.466 (0.365)	<b>0.656</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	1.344 (0.338)	$0.544 \ (p = 0.278)$

	DLIGH	3.370 (0.301)	
W2	DLiSA-I	4.130 (1.004)	<b>0.660</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	3.731 (0.789)	$0.524 \ (p = 0.562)$
	DLiSA	1.286 (0.248)	
W3	DLiSA-I	1.466 (0.365)	<b>0.656</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	1.344 (0.338)	$0.544 \ (p = 0.278)$
	DLiSA	1.586 (0.236)	
3374	DI:CAI	1.025 (1.201)	0 ((( ( < 0 001)

W5	DLiSA-I	3.670 (0.939)	<b>0.659</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA	3.222 (0.514)	
	DLiSA-II	1.649 (0.364)	$0.516 \ (p = 0.702)$
W4	DLiSA-I	1.935 (1.281)	<b>0.666</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA	1.586 (0.236)	
	DLiSA-II	1.344 (0.338)	$0.544 \ (p = 0.278)$
W3	DLiSA-I	1.466 (0.365)	<b>0.656</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA	1.286 (0.248)	

DL1SA-I	1.466 (0.365)	$0.656 \ (p < 0.001)$
DLiSA-II	1.344 (0.338)	$0.544 \ (p = 0.278)$
DLiSA	1.586 (0.236)	
DLiSA-I	1.935 (1.281)	<b>0.666</b> ( <i>p</i> < <b>0.001</b> )
DLiSA-II	1.649 (0.364)	$0.516 \ (p = 0.702)$
DLiSA	3.222 (0.514)	
DLiSA-I	3.670 (0.939)	<b>0.659</b> ( <i>p</i> < <b>0.001</b> )
DLiSA-II	3.442 (0.895)	$0.550 \ (p = 0.218)$
DLiSA	0.100 (0.013)	

W4	DLiSA-I	1.935 (1.281)	<b>0.666</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	1.649 (0.364)	$0.516 \ (p = 0.702)$
	DLiSA	3.222 (0.514)	
W5	DLiSA-I	3.670 (0.939)	<b>0.659</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	3.442 (0.895)	$0.550 \ (p = 0.218)$
	DLiSA	0.100 (0.013)	
W6	DLiSA-I	0.115 (0.049)	<b>0.687</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	0.104 (0.015)	0.573 (p = 0.065)

	DLiSA-II	3.442 (0.895)	$0.550 \ (p = 0.218)$
	DLiSA	0.100 (0.013)	
W6	DLiSA-I	0.115 (0.049)	<b>0.687</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	0.104 (0.015)	$0.573 \ (p = 0.065)$
	DLiSA	0.572 (0.110)	
****	D7 10 1 7	0 ((0 000)	0 (= ( .0.004)

	DLISA	0.100 (0.013)	
W6	DLiSA-I	0.115 (0.049)	<b>0.687</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	0.104 (0.015)	$0.573 \ (p = 0.065)$
	DLiSA	0.572 (0.110)	
W7	DLiSA-I	0.668 (0.201)	<b>0.656</b> ( <i>p</i> < <b>0.001</b> )
	DI :CA II	0.502 (0.121)	0.512 ( 0.75)

	DLiSA-II	0.104 (0.015)	$0.573 \ (p = 0.065)$
	DLiSA	0.572 (0.110)	
W7	DLiSA-I	0.668 (0.201)	<b>0.656</b> ( <i>p</i> < <b>0.001</b> )
	DLiSA-II	0.583 (0.131)	$0.513 \ (p = 0.75)$
	DIGA	0.133 (0.010)	

		DLISA-II	0.585 (0.151)	$0.513 \ (p = 0.75)$
-		DLiSA	0.133 (0.019)	
	W8	DLiSA-I	0.166 (0.133)	<b>0.658</b> ( <i>p</i> < <b>0.001</b> )
		D.T. 10 1 TT	0.400 (0.000)	0.5(5.4) 0.004)

DLiSA-II 0.138(0.022)0.567 (p = 0.091)DLiSA

0.240 (0.031) W9 DLiSA-I 0.258 (0.042)  $0.657 \ (p < 0.001)$ 0.243 (0.030)

DLiSA-II

0.535 (p = 0.383)