0	ct 27, 14 21	1:39		csc	791sbse:hw	v7:Fu		Page	1/2
5	!!!! Schaffe #mws Runtime: #sa Runtime: #de Runtime: #pso Runtime: #ga Runtime:	0.419 secs 0.134 secs 0.332 secs 0.184 secs	:						
10	rank ,	name ,	med ,	igr 	 I). 0 00	0.00. 0.00	0.00	0.00
15	1 , 1 , 1 , 2 ,	pso , sa , ga , mws ,	0 , 0 , 0 , 6 ,	0 (* 0 (* 0 (* 23 (*), 0.00,), 0.00,), 0.00,), 0.00,	0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.01, 0.06,	0.00, 0.00, 0.00, 0.19,	0.00 0.00 0.00 0.43
20	!!!! Fonseca #mws Runtime: #sa Runtime: #de Runtime: #pso Runtime: #ga Runtime:	0.424 secs 0.253 secs 0.502 secs 0.290 secs	.						
25		name ,							
30	1 , 1 , 2 , 3 , 4 ,	de , pso , ga , sa , mws ,	0 , 0 , 6 , 21 , 100 ,	0 (* 0 (* 11 (*- 36 (0 (*), 0.00,), 0.00,), 0.00,), 0.00, *), 1.00,	0.00, 0.00, 0.00, 0.00, 0.00, 0.06, 0.07, 0.21, 1.00, 1.00,	0.00, 0.00, 0.10, 0.29, 1.00,	0.00 0.00 0.13 0.58 1.00
35	!!!! Kursawe #mws Runtime: #sa Runtime: #de Runtime: #pso Runtime: #ga Runtime:	0.355 secs 0.215 secs 0.824 secs 0.852 secs	.						
40	rank ,	name ,	med ,	iqr					
45	1 , 1 , 1 , 2 , 3 ,	de , pso , ga , sa , mws ,	0 , 0 , 0 , 8 , 48 ,	0 (* 0 (* 1 (* 8 (- * 15 (- *), 0.00,), 0.00,), 0.00,), 0.00,), 0.36,	0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.04, 0.08, 0.43, 0.48,	0.00, 0.00, 0.01, 0.11, 0.56,	0.00 0.07 0.12 0.14 0.64
50	!!!! ZDT1 #mws Runtime: #sa Runtime: #de Runtime: #pso Runtime: #ga Runtime:	0.149 secs 0.638 secs 5.836 secs							
	rank ,	name ,	med ,	iqr					
60	1 , 1 , 1 , 2 , 3 ,	mws , de , ga , sa , pso ,	0 , 0 , 0 , 19 , 48 ,	0 (* 0 (* 0 (* 20 (15 (*), 0.00,), 0.00,), 0.00,), 0.02,), 0.29,	0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.08, 0.19, 0.46, 0.48,	0.00, 0.00, 0.00, 0.24, 0.55,	0.00 0.00 0.00 0.34 0.69
70	!!!! ZDT3 #mws Runtime: #sa Runtime: #de Runtime: #pso Runtime: #ga Runtime:	0.170 secs 0.913 secs 0.412 secs	.						
	rank ,		med ,						
75	1 , 1 , 1 ,	de , pso , ga ,	0 , 0 , 0 ,	0 (* 0 (* 0 (*	* *), 0.00,), 0.00,), 0.00,	0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.24, 0.28, 0.36, 0.45,	0.00, 0.00, 0.00,	0.00 0.00 0.00
80	2 , 2 ,	mws ,	45 ,	14 (*), 0.18,	0.24, 0.28, 0.36, 0.45,	0.38,	0.52
85	!!!! Viennet #mws Runtime: #sa Runtime: #de Runtime: #pso Runtime: #ga Runtime:	0.228 secs 0.181 secs 0.584 secs 0.238 secs	;						
90	rank ,	name ,							
95	1 , 1 , 2 , 3 ,	de , pso , sa , ga , mws ,	0 , 0 , 0 , 2 , 10 ,	2 (*), 0.00,), 0.00,), 0.00,), 0.01,), 0.07,	0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.01, 0.02, 0.08, 0.10,	0.00, 0.00, 0.01, 0.03, 0.33,	0.00 0.00 0.01 0.17 0.56
	!!!! DTLZ7								

#mws Runtime: 0.759 secs ### as Runtime: 0.418 secs ### de Runtime: 17.423 secs ### pso Runtime: 501.989 secs 105	Runtime: 0.759 secs untime: 0.781 secs statume: 501.989 secs statume: 501.980 secs statume: 501.980 secs statume: 501.980 secs statume: 501.980 secs statume: 11.81 secs statume: 11.81 secs statume: 1.81 secs statume: 0.607 secs statume: 50.593 secs statume: 5		ct 27, 14 2	1:39		csc7	791sbse:h	nw7:Fu		Pag	e 2/2
1, mws, 0, 0 (* 1, 0.00, 0.00, 0.00, 0.00, 0.00, 1, de, 0, 0 (* 1, de, 0, 0 (* 1, de, 0, 0 (* 1, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 1, de, 0, 0 (* 1, 0.00,	mws, 0, 0 (*), 0.00, 0.	100	#sa Runtime: #de Runtime: #pso Runtime	0.418 secs 0.781 secs : 17.423 sec	es						
1!!! Schwefel	Schwefel Runtime: 1.181 secs untime: 2.679 secs untime: 20.593 secs untime: 20.593 secs untime: 10185.145 secs , name , med , iqr . de , 0 , 0 (*	105									
1!!! Schwefel	Schwefel Runtime: 1.181 secs untime: 2.679 secs untime: 20.593 secs untime: 20.593 secs untime: 10185.145 secs , name , med , iqr . de , 0 , 0 (*		1 , 1 ,	mws , de ,	0 ,	0 (* 0 (*), 0.00,), 0.00,	0.00, 0.00 0.00, 0.00	, 0.00, , 0.00,	0.00
1!!! Schwefel	Schwefel Runtime: 1.181 secs untime: 2.679 secs untime: 20.593 secs untime: 20.593 secs untime: 10185.145 secs , name , med , iqr . de , 0 , 0 (*	110	1 ,	ga , sa ,	0 , 11 ,	0 (*), 0.00,	0.00, 0.00 0.00, 0.11	, 0.00, , 0.21,	0.00
### ### Runtime: 1.181 secs ### ### ### ### ### ### ### ### ### ##	Runtime: 1.181 secs untime: 20.593 secs untime: 10185.145 secs name , med , iqr de , 0 , 0 (*), 0.00, 0.0		3 ,	pso ,	56 ,	27 (*), 0.40,	0.53, 0.56	, 0.66,	0.74
rank , name , med , iqr 1 , de , 0 , 0 (*	de , 0 , 0 (*), 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.01, 0.02, 0.00, 0.00, 0.01, 0.04, 0.08, 0.11, 0.14 mws , 20 , 13 (*), 0.00, 0.00, 0.04, 0.08, 0.11, 0.14 mws , 20 , 13 (*), 0.00, 0.00, 0.04, 0.08, 0.11, 0.14 mws , 20 , 13 (*), 0.08, 0.11, 0.20, 0.24, 0.38 minime: 0.384 secs intime: 0.397 secs intime: 0.197 secs intime: 10.811 secs intime: 10.812 secs intime: 10.813 secs intime: 10.814 secs intime: 10.814 secs intime: 10.815 secs intime:	115	<pre>#mws Runtime #sa Runtime: #de Runtime: #pso Runtime</pre>	: 1.181 secs 0.607 secs 1.732 secs : 20.593 sec	es						
1, de, 0, 0 (*), 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 1, ga, 0, 1 (*), 0.00, 0.00, 0.00, 0.00, 0.01, 0.25 1, pso, 1, 4 (*), 0.00, 0.00, 0.00, 0.01, 0.3, 0.2, sa, 8, 8 (*), 0.01, 0.04, 0.04, 0.08, 0.11, 0.20, 0.24, 0.3, mws, 20 , 13 (*), 0.01, 0.04, 0.08, 0.11, 0.20, 0.24, 0.3, mws Runtime: 0.384 secs #sa Runtime: 0.384 secs #sa Runtime: 0.397 secs #de Runtime: 0.399 secs #pso Runtime: 10.811 secs rank , name , med , iqr 1, sa, 0, 0(*), 0.00,	de , 0 , 0 (*), 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, 0.00, ga , 0 , 1 (*), 0.00, 0.00, 0.00, 0.01, 0.02, pso , 1 , 4 (*), 0.00, 0.00, 0.00, 0.01, 0.03, 0.06, sa , 8 , 8 (*), 0.01, 0.01, 0.04, 0.08, 0.11, 0.14 mws , 20 , 13 (*), 0.01, 0.04, 0.08, 0.11, 0.14 mws , 20 , 13 (*), 0.08, 0.11, 0.20, 0.24, 0.38 Cosyczka Runtime: 0.384 secs Intime: 0.395 secs Intime: 10.818 secs Intime: 110.811 secs Iname , med , iqr Sa , 0 , 0 (*), 0.00, 0.00, 0.00, 0.00, 0.22, 0.24, 0.38 Intime: 110.811 secs In mame , med , iqr Sa , 0 , 0 (*), 0.00, 0	120	rank ,	name ,	med ,	iqr					
#mws Runtime: 0.384 secs #sa Runtime: 0.389 secs #sa Runtime: 0.399 secs #dde Runtime: 2.398 secs #pso Runtime: 2.918 secs #mus Runtime: 10.811 secs rank	Osyczka Runtime: 0.384 secs untime: 0.197 secs untime: 0.339 secs Runtime: 2.918 secs Runtime: 2.918 secs Runtime: 110.811 secs), 0.00,	0.00, 0.00	, 0.00,	0.00
#mws Runtime: 0.384 secs #sa Runtime: 0.389 secs #sa Runtime: 0.399 secs #dde Runtime: 2.398 secs #pso Runtime: 2.918 secs #mus Runtime: 10.811 secs rank	Osyczka Runtime: 0.384 secs untime: 0.197 secs untime: 0.339 secs Runtime: 2.918 secs Runtime: 2.918 secs Runtime: 110.811 secs	125	1 ,	ga,	0 ,	1 (*), 0.00,	0.00, 0.00 0.00, 0.01	, 0.01,	0.02
#mws Runtime: 0.384 secs #sa Runtime: 0.389 secs #sa Runtime: 0.399 secs #dde Runtime: 2.398 secs #pso Runtime: 2.918 secs #mus Runtime: 10.811 secs rank	Osyczka Runtime: 0.384 secs untime: 0.197 secs untime: 0.339 secs Runtime: 2.918 secs Runtime: 2.918 secs Runtime: 110.811 secs		2 , 3 ,	sa , mws ,	8 , 20 ,	8 (*	*), 0.01,), 0.08,	0.04, 0.08 0.11, 0.20	, 0.11, , 0.24,	0.14
rank , name , med , iqr 1	name , med , iqr sa , 0 , 0 (*), 0.00, 0.00, 0.00, 0.00, 0.22 de , 0 , 0 (*), 0.00, 0.00, 0.00, 0.00, 0.00 ga , 8 , 19 (*), 0.00, 0.00, 0.00, 0.00, 0.00 mws , 42 , 14 (*), 0.11, 0.38, 0.42, 0.50, 0.56 pso , 65 , 28 (#mws Runtime #sa Runtime: #de Runtime: #pso Runtime	: 0.384 secs 0.197 secs 0.339 secs : 2.918 secs	5						
1 , sa , 0 , 0 (*), 0.00, 0.00, 0.00, 0.00, 0.00, 1.00 1 , de , 0 , 0 (*), 0.00, 0.	sa , 0 , 0 (*), 0.00, 0.00, 0.00, 0.00, 0.02 de , 0 , 0 (*), 0.00, 0.00, 0.00, 0.00, 0.00 , 0.			name ,	med ,						
146 :de options	options (0.3 f:0.75 np:100 repeats:100 threshold:1e-06 options spoints:2 crossRate:0.6 genNum:[100, 200, 400, 800] pop:50 options changes:1000 max_tries:20 prob:0.25 threshold:0.0001 er options :0.56 baseline:1000 era:50 keep:64 lives:1 repeats:1 reportrange:False show:False xt se options 30 phi1:2.8 phi2:1.3 repeats:1000 threshold:1e-06 w:1 options		1 ,	sa ,	0 ,	0 (*	·), 0.00,	0.00, 0.00	, 0.00,	0.22
146 :de options	options (0.3 f:0.75 np:100 repeats:100 threshold:1e-06 options spoints:2 crossRate:0.6 genNum:[100, 200, 400, 800] pop:50 options changes:1000 max_tries:20 prob:0.25 threshold:0.0001 er options :0.56 baseline:1000 era:50 keep:64 lives:1 repeats:1 reportrange:False show:False xt se options 30 phi1:2.8 phi2:1.3 repeats:1000 threshold:1e-06 w:1 options	140	1 ,	de , ga ,	8 ,	19 (*), 0.00,	0.00, 0.00	, 0.00, , 0.17,	0.00
de options cr :0.3 f :0.75 np :100 repeats :100 threshold :1e-06 :ga options crossPoints :2 crossRate :0.6 genNum :[100, 200, 400, 800] pop :50 :mws options max_changes :1000 max_tries :20 prob :0.25 threshold :0.0001 :other options al2 :0.56 baseline :1000 era :50 keep :64 lives :1 repeats :1 reportrange :False show :False :False :pso options N :30 phil :2.8 phi2 :1.3 repeats :1000 threshold :1e-06 w :1	options (0.3 f:0.75 np:100 repeats:100 threshold:1e-06 options sPoints:2 crossRate:0.6 genNum:[100, 200, 400, 800] pop:50 options changes:1000 max_tries:20 prob:0.25 threshold:0.0001 er options :0.56 baseline:1000 era:50 keep:64 lives:1 repeats:1 reportrange:False show:False xt se options 30 phil:2.8 phi2:1.3 repeats:1000 threshold:1e-06 w:1 options		3 , 4 ,	mws , pso ,	42 , 65 ,	14 (28 (*), 0.11,), 0.34,	0.38, 0.42 0.56, 0.65	, 0.50, , 0.79,	0.56
cooling :0.6 kmax :1000			max_change :other opti- al2:0.56 :False :pso option N:30 phi :sa options	s:1000 maxons ons baseline:1 s 1:2.8 phi2	1000 era : 2 :1.3 rep	50 keep :64	lives :1 repe	eats :1 reportran	ge :False si	how :Fals	se xt
cooling:0.6 kmax:1000		155	:False :pso option N :30 phi :sa options	s 1 :2.8 phi2	2:1.3 rep				ge (raise s	now Tari	, .