Category	Function	Search Space	Global Optima	Landscape	Similarity
F_1 :CI+HS	T ₁ :Griewank	$\{[-100, 100]\}^{50}$	$\{0\}^{50}$	Multi-modality, Nonseparable	1.0000
	T_2 :Rastrign	$\{[-50, 50]\}^{50}$	$\{0\}^{50}$	Multi-modality, Nonseparable	
F ₂ :CI+MS	T ₁ :Ackley	$\{[-50, 50]\}^{50}$	$\{0\}^{50}$	Multi-modality, Nonseparable	0.2261
	T_2 :Rastrign	$\{[-50, 50]\}^{50}$	$\{0\}^{50}$	Multi-modality, Nonseparable	
F ₃ :CI+LS	T_1 :Ackley	$\{[-50, 50]\}^{50}$	${42.0969}^{50}$	Multi-modality, Nonseparable	0.0002
	T_2 :Schwefel	$\{[-500, 500]\}^{50}$	${420.9687}^{50}$	Multi-modality, Separable	
F ₄ :PI+HS	T_1 :Rastrign	$\{[-50, 50]\}^{50}$	$\{0\}^{50}$	Multi-modality, Nonseparable	0.8670
	T_2 :Sphere	$\{[-100, 100]\}^{50}$	$\{0\}^{25} \times \{20\}^{25}$	Unimodality, Separable	
F ₅ :PI+MS	T ₁ :Ackley	$\{[-50, 50]\}^{50}$	$\{0\}^{25} \times \{1\}^{25}$	Multi-modality, Nonseparable	0.2154
	T ₂ :Rosenbrock	$\{[-50, 50]\}^{50}$	$\{1\}^{50}$	Multi-modality, Nonseparable	
F ₆ :PI+LS	T ₁ :Ackley	$\{[-50, 50]\}^{50}$	$\{0\}^{50}$	Multi-modality, Nonseparable	0.0725
	T_2 :Weierstrass	$\{[-0.5, 0.5]\}^{25}$	$\{0\}^{25}$	Multi-modality, Nonseparable	
F ₇ :NI+HS	T ₁ :Rosenbrock	$\{[-50, 50]\}^{50}$	$\{1\}^{50}$	Multi-modality, Nonseparable	0.9434
	T_2 :Rastrign	$\{[-50, 50]\}^{50}$	$\{0\}^{50}$	Multi-modality, Nonseparable	
F ₈ :NI+MS	T_1 :Griewank	$\{[-100, 100]\}^{50}$	$\{10\}^{50}$	Multi-modality, Nonseparable	0.3669
	T_2 :Weierstrass	$\{[-0.5, 0.5]\}^{25}$	$\{0\}^{25}$	Multi-modality, Nonseparable	
F ₉ :NI+LS	T_1 :Rastrign	$\{[-50, 50]\}^{50}$	$\{0\}^{50}$	Multi-modality, Nonseparable	0.0016
	T_2 :Schwefel	$\{[-500, 500]\}^{50}$	${420.9687}^{50}$	Multi-modality, Separable	

 $\label{eq:table S2} \textbf{BENCHMARK OF MATDE-PROBLEM TEST SUITE}.$

Tasks	Function	Search Space	Global Optima	Landscape	Category	Ideal Assisted Task
$\overline{F_1}$	$Sphere_1$	$[-100, 100]^{50}$	$\{0\}^{50}$	Unimodality,Separable	E task	None
$\overline{F_2}$	$Sphere_2$	$[-100, 100]^{50}$	$\{80\}^{50}$	Unimodality,Separable	E task	None
F_3	$Sphere_3$	$[-100, 100]^{50}$	$\{-80\}^{50}$	Unimodality,Separable	E task	None
F_4	$Weierstrass_1$	$[-0.5, 0.5]^{25}$	$\{-0.4\}^{25}$	Multi-modality,Nonseparable	E task	None
$\overline{F_5}$	Rosenbrock	$[-50, 50]^{50}$	$\{0\}^{50}$	Multi-modality,Nonseparable	C task	F_1
F_6	Ackley	$[-50, 50]^{50}$	${40}^{50}$	Multi-modality,Nonseparable	C task	F_2
$\overline{F_7}$	$Weierstrass_2$	$[-0.5, 0.5]^{50}$	$\{-0.4\}^{50}$	Multi-modality,Nonseparable	C task	F_3, F_4
F_8	Schwefel	$[-500, 500]^{50}$	${420.9687}^{50}$	Multi-modality,Separable	C task	None
$\overline{F_9}$	Griewank	$[-100, 100]^{50}$	$\{-80\}^{25} \times \{80\}^{25}$	Multi-modality,Nonseparable	C task	$\overline{F_4}$
F_10	Rastrign	$[-50, 50]^{50}$	$\{40\}^{25} \times \{-40\}^{25}$	Multi-modality,Nonseparable	C task	None

 $\label{table S3} \textbf{FUNCTION COMBINATION OF EACH PROBLEM IN WCCI20-MATSO TEST SUITE}.$

	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Sphere	\checkmark			√						
Rosenbrock		\checkmark		\checkmark		\checkmark		\checkmark	\checkmark	
Ackley				\checkmark			\checkmark	\checkmark	\checkmark	\checkmark
Rastrign			\checkmark		\checkmark		\checkmark	\checkmark	\checkmark	\checkmark
Griewank					\checkmark	\checkmark		\checkmark	\checkmark	\checkmark
Weierstrass					\checkmark		\checkmark	\checkmark	\checkmark	\checkmark
Schwefel						\checkmark			\checkmark	\checkmark

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COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN EACH MTO PROBLEM IN CEC17-MTSO. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE (CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 18 COMPONENT TASKS FROM ALL NINE MTO PROBLEMS IN CEC17-MTSO.

Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
MTSO1-CI-HS-T1	0.00e+00 (0.00e+00)	4.63e-07 (2.05e-06) -	2.96e-03 (1.52e-03) -	1.70e-05 (8.18e-06) -	0.00e+00 (0.00e+00) =	3.92e-03 (1.05e-03) -
MTSO1-CI-HS-T2	3.46e+02 (2.88e+01)	3.48e-01 (1.56e+00) +	4.38e+00 (2.51e+00) +	2.31e-02 (1.04e-02) +	0.00e+00 (0.00e+00) +	4.05e+02 (1.44e+01) -
MTSO2-CI-MS-T1	8.88e-16 (0.00e+00)	1.03e-04 (3.41e-04) -	3.47e-02 (9.03e-03) -	2.60e-03 (7.34e-04) -	8.88e-16 (0.00e+00) =	2.92e+00 (2.69e+00) -
MTSO2-CI-MS-T2	3.45e+02 (2.13e+01)	4.98e-01 (2.22e+00) +	6.23e-01 (2.80e-01) +	4.41e-03 (2.31e-03) +	0.00e+00 (0.00e+00) +	4.08e+02 (1.45e+01) -
MTSO3-CI-LS-T1	2.93e-14 (0.00e+00)	2.12e+01 (4.13e-02) -	2.12e+01 (3.10e-02) -	2.12e+01 (4.84e-02) -	2.12e+01 (5.45e-02) -	2.12e+01 (3.25e-02) -
MTSO3-CI-LS-T2	6.77e+02 (1.18e+03)	8.02e+03 (5.17e+02) -	1.28e+04 (5.40e+02) -	1.28e+04 (7.21e+02) -	1.32e+04 (6.59e+02) -	1.33e+04 (7.93e+02) -
MTSO4-PI-HS-T1	3.34e+02 (4.81e+01)	3.88e+02 (1.41e+01) -	4.07e+02 (1.47e+01) -	3.95e+02 (9.46e+00) -	7.83e+00 (1.64e+01) +	4.04e+02 (1.64e+01) -
MTSO4-PI-HS-T2	1.63e-27 (6.20e-28)	7.48e-06 (6.93e-06) -	2.37e-02 (1.15e-02) -	1.97e-05 (1.14e-05) -	2.26e-03 (9.79e-04) -	5.08e-03 (1.94e-03) -
MTSO5-PI-MS-T1	8.88e-16 (0.00e+00)	1.21e-04 (1.11e-04) -	7.92e-02 (2.28e-02) -	3.53e-03 (1.26e-03) -	2.24e+00 (2.85e-01) -	2.78e+00 (4.18e+00) -
MTSO5-PI-MS-T2	4.73e+01 (2.59e-01)	8.41e+01 (2.39e+00) -	7.28e+01 (2.56e+01) -	5.64e+01 (1.77e+01) =	4.72e+01 (8.43e-01) =	6.14e+01 (2.32e+01) -
MTSO6-PI-LS-T1	8.88e-16 (0.00e+00)	4.87e-03 (7.68e-03) -	7.20e+00 (7.82e+00) -	1.14e+00 (2.55e+00) -	8.88e-16 (0.00e+00) =	6.62e+00 (7.07e+00) -
MTSO6-PI-LS-T2	1.46e-14 (1.02e-14)	1.67e-02 (4.16e-02) -	2.97e+00 (2.07e+00) -	8.38e-01 (1.44e+00) -	3.20e-07 (8.54e-07) -	8.51e+00 (6.02e+00) -
MTSO7-NI-HS-T1	4.76e+01 (2.10e-01)	4.52e+01 (7.98e-01) +	5.07e+01 (1.31e+00) -	4.63e+01 (4.37e-01) +	4.74e+01 (1.88e-01) +	5.64e+01 (1.71e+01) -
MTSO7-NI-HS-T2	3.51e+02 (2.18e+01)	1.29e+00 (2.72e+00) +	6.10e+00 (4.95e+00) +	1.71e-01 (5.59e-01) +	3.68e+02 (9.61e+00) -	4.06e+02 (2.15e+01) -
MTSO8-NI-MS-T1	0.00e+00 (0.00e+00)	3.86e-05 (3.09e-05) -	1.04e-02 (3.10e-03) -	6.70e-05 (2.79e-05) -	1.21e-01 (2.50e-02) -	4.51e-03 (1.81e-03) -
MTSO8-NI-MS-T2	1.43e-07 (5.52e-07)	7.94e-01 (6.14e-01) -	3.48e+00 (4.74e-01) -	7.55e-01 (2.23e-01) -	2.19e+00 (6.58e-01) -	2.73e+01 (1.50e+01) -
MTSO9-NI-LS-T1	3.56e+02 (1.66e+01)	3.99e+02 (1.25e+01) -	4.12e+02 (1.88e+01) -	3.92e+02 (1.52e+01) -	0.00e+00 (0.00e+00) +	4.14e+02 (1.71e+01) -
MTSO9-NI-LS-T2	8.26e+03 (2.03e+03)	1.12e+04 (5.02e+02) -	1.37e+04 (5.63e+02) -	1.31e+04 (6.33e+02) -	1.35e+04 (5.42e+02) -	1.34e+04 (6.39e+02) -
+/-/=	Base	4/14/0	3/15/0	4/13/1	5/9/4	0/18/0

TABLE S5

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN EACH MTO PROBLEM IN MATEA-PROBLEM. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE (CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 10 COMPONENT TASKS FROM MATEA-PROBLEM.

Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
MaTSO10-T1	0.00e+00 (0.00e+00)	9.78e-07 (8.43e-07) -	2.04e-02 (8.48e-03) -	2.24e-05 (1.22e-05) -	4.41e-21 (1.97e-20) -	4.56e-03 (1.52e-03) -
MaTSO10-T2	1.06e-26 (7.26e-27)	5.97e-07 (7.78e-07) -	6.16e-03 (2.37e-03) -	6.29e-04 (6.93e-04) -	2.39e-03 (1.03e-03) -	1.81e-03 (5.62e-04) -
MaTSO10-T3	0.00e+00 (0.00e+00)	6.09e-07 (5.56e-07) -	5.53e-03 (3.05e-03) -	5.35e-04 (5.33e-04) -	1.59e+00 (3.91e-01) -	2.00e-03 (9.78e-04) -
MaTSO10-T4	1.21e-14 (6.95e-15)	3.28e-04 (6.34e-04) -	4.33e-02 (1.07e-02) -	6.29e-01 (1.18e+00) -	1.43e+00 (9.43e-01) -	8.77e-01 (1.13e+00) -
MaTSO10-T5	4.72e+01 (4.12e-01)	4.65e+01 (5.51e-01) +	4.84e+01 (4.20e-01) -	5.87e+01 (2.39e+01) -	4.74e+01 (1.60e-01) =	7.42e+01 (8.26e+01) -
MaTSO10-T6	2.56e-14 (1.08e-14)	1.61e-04 (7.82e-05) -	3.07e-01 (1.27e+00) -	8.53e+00 (9.88e+00) -	1.99e+01 (6.61e-02) -	2.00e+01 (2.33e-03) -
MaTSO10-T7	2.06e-14 (7.25e-15)	2.26e-02 (6.35e-03) -	4.46e-01 (8.90e-02) -	7.55e+00 (6.09e+00) -	2.10e+01 (4.78e+00) -	1.25e+01 (3.48e+00) -
MaTSO10-T8	9.43e+02 (1.57e+03)	6.86e-04 (1.27e-04) =	5.57e-01 (6.92e-01) =	6.50e+03 (6.19e+03) -	1.32e+04 (7.33e+02) -	1.36e+04 (4.66e+02) -
MaTSO10-T9	0.00e+00 (0.00e+00)	2.09e-03 (5.43e-03) -	2.79e-04 (8.06e-05) -	1.55e-05 (2.44e-05) -	4.35e-02 (1.05e-02) -	4.39e-04 (1.65e-03) -
MaTSO10-T10	0.00e+00 (0.00e+00)	8.25e+01 (3.47e+01) -	3.85e+02 (1.88e+01) -	3.79e+02 (2.00e+01) -	3.90e+02 (1.66e+01) -	3.91e+02 (1.47e+01) -
+/-/=	Base	1/8/1	0/9/1	0/10/0	0/9/1	0/10/0

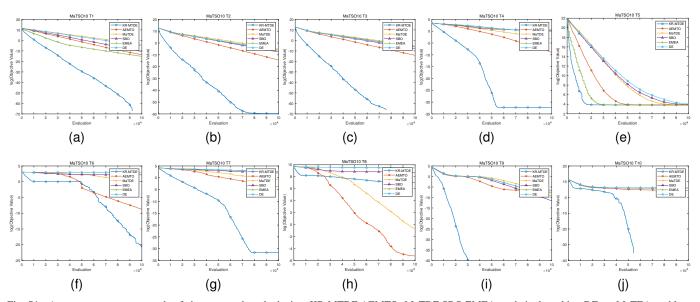


Fig. S1. Average convergence trends of six compared methods, i.e., KR-MTDE, AEMTO, MaTDE, SBO, EMEA, and single-tasking DE on MaTEA-problem.

TABLE S6

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO1 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO1 IN TEST SUITE 3.

CECPyMaTSO1-T1 465c401 (4.37c40) 5.25c40 (7.08c402) 9.07c401 (5.36c401) 5.08c401 (1.45c40) 5.20c40 (1.45c401) 5.20c401 (1.45c401) 5.20c601 (2.88c401) 5.28c601 (1.45c401) 5.20c601 (1.80c401) 5.20c601							
EECJMATSOLT	Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
EECPMATSOLT4 \$26e01 (1.99e01) \$568e03 (1.96e04) \$42e01 (3.27e01) \$564e01 (2.02e01) \$562e01 (1.59e01) \$682e01 (1.59e01) \$682e01 (1.59e01) \$682e01 (1.59e01) \$682e01 (1.59e01) \$612e01 (1.59e01) \$682e01 (1.59e01) \$612e01 (1.						(,	
ECCI9MaTSOL-74 \$26e01 (1.86e40) \$8.18e403 (2.98e40) \$0.32e401 (3.26e40) \$6.66e401 (2.02e40) \$6.82e401 (1.50e40) \$6.83e401 (3.15e40) \$6.82e401 (3.15e40) \$6.82e401 (3.90e40) \$6.92e401 (3.90e40) \$6.92e							
EECI9-MaTSOI-T5		5.26e+01 (1.79e+01)				9.79e+02 (9.42e+02) -	7.40e+01 (4.32e+01) -
EECI9-MaTSOI-T6							
CEC19-MaTSO1-T7							
CEC19-MaTSOL-T8	CEC19-MaTSO1-T6	4.66e+01 (4.02e-01)	7.52e+03 (2.78e+04) -	7.76e+01 (3.60e+01) -	6.30e+01 (4.29e+01) -	6.15e+01 (2.78e+01) -	6.04e+01 (1.73e+01) -
CEC19-MaTSO1-T19				(,			(,
ECCI9-MaTSOI-T10							
CEC19-MaTSO1-T12				. ,	` /	` /	
CEC19-MaTSO1-T12							
CECI9-MaTSOI-T13						(/	
CECI9-MaTSOI-T14 4.65e+01 (2.37e-01) 2.62e+03 (4.17e-03) 9.85e+01 (4.02e+01) 6.09e+01 (2.58e+01) 6.03e+01 (2.58e+01) 6.63e+01 (3.66e+01) 6							
CEC19-MaTSO1-T15			(
CEC19-MaTSO1-T16 5.23e+01 1.83e+03 1.02e+04) 8.20e+01 3.01e+01) 6.22e+01 2.70e+03 - 6.27e+01 2.82e+01) 5.52e+01 (1.57e+01) - CEC19-MaTSO1-T17 6.15e+01 (2.63e+01) 1.82e+03 (3.44e+03) 8.17e+01 (3.60e+01) 5.59e+01 (1.88e+01) 1.20e+03 (1.54e+03) 6.11e+01 (2.54e+01) 1.32e+03 (3.44e+03) 8.17e+01 (3.60e+01) 5.59e+01 (1.88e+01) 1.20e+03 (1.54e+03) 6.11e+01 (2.54e+01) 1.32e+03 (3.44e+03) 8.17e+01 (3.60e+01) 5.55e+01 (9.91e+00) 7.38e+01 (9.91e+00) 7.38e+01 (3.91e+01) 7.38							
CEC19-MaTSO1-T17 6.15e+01 (2.63e+01) 1.82e+03 (3.49e+03) 1.06e+02 (5.81e+01) 5.59e+01 (1.88e+01) 1.20e+03 (1.54e+03) 6.11e+01 (2.54e+01) CEC19-MaTSO1-T18 4.95e+01 (1.30e+01) 1.43e+03 (3.44e+03) 8.17e+01 (3.60e+01) 5.35e+01 (1.91e+01) 7.48e+02 (9.39e+02) 6.85e+01 (1.81e+01) 5.36e+01 (1.91e+01) 7.48e+02 (9.39e+02) 6.85e+01 (1.81e+01) 7.48e+02 (9.39e+02) 6.85e+01 (1.81e+01) 7.48e+02 (9.39e+02) 6.85e+01 (1.81e+01) 7.48e+02 (9.39e+02) 6.77e+01 (3.98e+01) 6.76e+01 (3.91e+01) 7.48e+02 (9.39e+02) 6.77e+01 (3.98e+01) 6.63e+01 (1.72e+01) 6.79e+01 (3.07e+01) 7.78e+02 (3.04e+02) 6.72e+01 (3.07e+01) 6.79e+01 (3.07e+01) 6.79e+01 (3.07e+01) 6.79e+01 (3.09e+01) 7.12e+01 (3.94e+01) 6.92e+01 (3.94e+01) 6.92e+01 (3.94e+01) 6.92e+01 (3.94e+01) 6.92e+01 (3.94e+01) 7.12e+01 (3.94e+01) 7.12			` /	. ,		` /	, ,
CEC19-MaTSO1-T18 4.95e+01 (1.30e+01) 1.43e+03 (3.44e+03) 8.17e+01 (3.60e+01) 5.35e+01 (9.91e+00) 6.18e+01 (2.62e+01) 6.58e+01 (3.90e+01) CEC19-MaTSO1-T19 4.65e+01 (3.84e+01) 4.16e+02 (4.95e+02) 6.85e+01 (1.18e+01) 5.36e+01 (1.19e+01) 7.48e+02 (9.39e+02) 6.77e+01 (3.98e+01) CEC19-MaTSO1-T21 4.97e+01 (1.36e+01) 4.99e+03 (1.67e+04) 9.54e+01 (4.82e+01) 6.63e+01 (3.30e+01) 6.27e+01 (3.07e+01) 5.78e+01 (2.11e+01) 5.78e+01 (2.11e+01) 6.69e+01 (3.30e+01) 6.27e+01 (3.94e+02) 6.42e+01 (2.84e+01) 6.69e+01 (3.35e+01) 7.12e+01 (3.94e+02) 6.42e+01 (2.84e+01) 6.20e+01 (2.94e+02) 6.42e+01 (2.84e+01) 6.20e+01 (2.94e+02) 6.27e+01 (2.94e+02) 6.27e+0							
CEC19-MaTSO1-T20			` /	. ,			, ,
CEC19-MaTSO1-T20							
CEC19-MaTSO1-T21 4.97e+01 (1.36e+01) 4.49e+03 (1.67e+04) 9.54e+01 (4.82e+01) 6.63e+01 (3.30e+01) 6.12e+02 (3.04e+02) 6.42e+01 (2.84e+01) CEC19-MaTSO1-T22 6.52e+01 (2.94e+01) 1.75e+03 (4.01e+03) 9.53e+01 (4.54e+01) 6.69e+01 (3.35e+01) 7.12e+01 (3.94e+01) 5.56e+01 (1.75e+01) CEC19-MaTSO1-T23 4.67e+01 (6.08e-01) 2.50e+03 (7.59e+03) 7.5ce+01 (2.21e+01) 6.69e+01 (2.79e+01) 9.73e+02 (8.61e+02) 6.27e+01 (2.92e+01) CEC19-MaTSO1-T24 5.23e+01 (1.83e+01) 5.37e+02 (7.42e+02) 8.76e+01 (5.58e+01) 5.38e+01 (1.64e+01) 5.65e+01 (1.67e+01) 5.87e+01 (2.25e+01) CEC19-MaTSO1-T25 4.64e+01 (3.05e-01) 1.10e+03 (1.40e+03) 7.12e+01 (1.85e+01) 5.43e+01 (1.96e+01) 9.12e+02 (1.03e+03) 5.93e+01 (1.61e+01) CEC19-MaTSO1-T25 4.69e+01 (1.30e+01) 7.47e+02 (1.09e+03) 8.59e+01 (4.25e+01) 5.57e+01 (1.80e+01) 6.75e+01 (3.04e+01) 7.21e+01 (3.04e+01) 6.75e+01 (3.04e+01) 7.21e+01 (3.04e+							
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CEC19-MaTSO1-T27 4.98e+01 (1.30e+01) 7.47e+02 (1.09e+03) - 8.59e+01 (4.25e+01) - 5.57e+01 (1.80e+01) - 6.94e+02 (5.02e+02) - 6.54e+01 (5.09e+01) - CEC19-MaTSO1-T28 4.69e+01 (5.13e-01) 1.82e+03 (4.23e+03) - 7.72e+01 (3.12e+01) - 6.77e+01 (2.77e+01) - 5.63e+01 (2.04e+01) - 7.21e+01 (3.61e+01) - CEC19-MaTSO1-T30 4.97e+01 (1.40e+01) 7.82e+02 (9.45e+02) - 8.12e+01 (2.86e+01) - 1.00e+02 (1.01e+02) - 7.15e+01 (4.02e+01) - 6.20e+01 (2.60e+01) - CEC19-MaTSO1-T31 4.66e+01 (4.77e-01) 7.70e+02 (1.13e+03) - 8.98e+01 (1.92e+00) - 6.42e+01 (3.11e+01) - 6.68e+02 (8.30e+02) - 5.12e+01 (2.86e+00) - CEC19-MaTSO1-T31 4.66e+01 (4.77e-01) 7.70e+02 (1.13e+03) - 6.91e+01 (9.52e+00) - 6.42e+01 (3.11e+01) - 6.68e+02 (8.30e+02) - 5.12e+01 (2.86e+00) - CEC19-MaTSO1-T32 5.87e+01 (2.44e+01) 1.53e+03 (1.87e+03) - 9.39e+01 (6.20e+01) - 5.82e+01 (2.58e+01) + 6.56e+01 (3.12e+01) - 6.40e+01 (2.44e+01) - CEC19-MaTSO1-T33 4.64e+01 (3.58e-01) 8.72e+02 (1.33e+03) - 8.40e+01 (2.26e+01) - 6.15e+01 (2.45e+01) - 1.35e+03 (1.69e+03) - 7.07e+01 (3.63e+01) - CEC19-MaTSO1-T33 4.64e+01 (6.21e-01) 5.18e+03 (1.98e+04) - 7.85e+01 (2.26e+01) - 5.56e+01 (2.45e+01) - 1.35e+03 (1.69e+03) - 7.07e+01 (3.63e+01) - CEC19-MaTSO1-T35 4.96e+01 (1.29e+01) 8.14e+02 (1.09e+03) - 7.40e+01 (2.26e+01) - 5.56e+01 (2.46e+01) - 6.60e+02 (4.63e+02) - 5.83e+01 (2.12e+01) - CEC19-MaTSO1-T35 5.61e+01 (2.24e+01) 1.25e+03 (2.37e+03) - 1.17e+02 (5.87e+01) - 6.05e+01 (2.26e+01) - 6.60e+02 (4.63e+02) - 5.83e+01 (2.12e+01) - CEC19-MaTSO1-T38 5.84e+01 (2.16e+01) 9.51e+02 (1.23e+03) - 8.40e+01 (3.35e+01) - 6.05e+01 (2.27e+01) - 6.66e+01 (3.63e+01) - 5.60e+01 (3.69e+01) - 5.60e+01							
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$ \begin{array}{c} \textbf{CEC19-MaTSO1-T38} & 5.84\text{e}+01 \ (2.44\text{e}+01) & 1.77\text{e}+03 \ (3.11\text{e}+03) & 8.53\text{e}+01 \ (4.46\text{e}+01) & 6.65\text{e}+01 \ (4.28\text{e}+01) & 5.92\text{e}+01 \ (2.46\text{e}+01) & 5.62\text{e}+01 \ (1.78\text{e}+01) & + 1.77\text{e}+03 \ (4.68\text{e}+03) & 7.91\text{e}+01 \ (2.56\text{e}+01) & 5.47\text{e}+01 \ (1.40\text{e}+01) & 9.64\text{e}+02 \ (1.10\text{e}+03) & 5.33\text{e}+01 \ (4.76\text{e}+00) & - 1.02\text{e}+01 \ (2.29\text{e}+01) & 6.10\text{e}+01 \ (2.29\text{e}+01) & 6.80\text{e}+01 \ (3.76\text{e}+01) & 5.95\text{e}+01 \ (1.94\text{e}+01) & 5.95\text{e}+01 \ (1.94\text{e}+01) & - 1.08\text{e}+03 \ (1.94\text{e}+03) & - 1.08\text{e}+03 \ (1.94\text{e}+03$			1.25e+03 (2.37e+03) -	(,	6.15e+01 (2.60e+01) -		
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$CEC10 \text{ M-TCO1} \text{ TAS} = 4.66 \times 0.1 (2.00 \times 0.1) = 2.25 \times 0.2 (4.02 \times 0.02) = 6.20 \times 0.1 (9.44 \times 0.02) = 5.10 \times 0.1 (2.00 \times 0.02) = 5.76 \times 0.1 (1.00 \times 0$				(,	(,		
	CEC19-MaTSO1-T45	4.66e+01 (2.99e-01)	2.35e+03 (4.02e+03) -	6.20e+01 (8.44e+00) -	5.10e+01 (3.88e+00) -	7.27e+02 (6.69e+02) -	5.76e+01 (1.69e+01) -
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$,	(,
$\frac{\text{CEC19-MaTSO1-T47}}{\text{CEC19-MaTSO1-T47}} \frac{5.55 \pm 01}{5.55 \pm 01} \cdot \frac{(2.22 \pm 01)}{4.74 \pm 02} \frac{4.74 \pm 02}{5.80 \pm 01} \cdot \frac{8.24 \pm 01}{5.20 \pm 01} \cdot \frac{2.72 \pm 01}{5.20 \pm 01} \cdot \frac{7.28 \pm 01}{5.20 \pm 01} \cdot \frac{3.22 \pm 03}{5.20 \pm 01} \cdot \frac{1.32 \pm 03}{5.20 \pm $							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			4.03e+03 (1.42e+04) -		8.52e+01 (5.45e+01) -	5.45e+01 (1.68e+01) +	5.88e+01 (2.43e+01) +
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CEC19-MaTSO1-T50	4.65e+01 (3.42e-01)	9.71e+02 (1.32e+03) -	8.06e+01 (3.03e+01) -	7.46e+01 (3.44e+01) -	5.77e+01 (2.26e+01) -	5.29e+01 (3.43e+00) -
+/-/= Base 0/50/0 0/50/0 2/47/1 1/49/0 4/45/1	+/-/=	Base	0/50/0	0/50/0	2/47/1	1/49/0	4/45/1

TABLE S7

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO2 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO2 IN TEST SUITE 3.

Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
CEC19-MaTSO2-T1	1.13e-07 (5.94e-08)	1.09e+01 (7.58e+00) -	1.92e+01 (3.04e+00) -	1.68e+01 (7.04e+00) -	1.94e+01 (2.71e+00) -	2.01e+01 (1.89e-01) -
CEC19-MaTSO2-T1	1.63e-04 (7.27e-04)	1.10e+01 (7.56e+00) -	1.91e+01 (3.06e+00) -	1.70e+01 (6.56e+00) -	1.92e+01 (3.64e+00) -	1.98e+01 (1.24e+00) -
CEC19-MaTSO2-12 CEC19-MaTSO2-T3		1.08e+01 (7.71e+00) -		1.70e+01 (6.50e+00) -	1.92e+01 (3.64e+00) -	2.02e+01 (1.24e+00) -
	1.56e-07 (6.33e-08)		1.90e+01 (3.40e+00) -			
CEC19-MaTSO2-T4	9.74e-08 (6.34e-08)	8.89e+00 (7.08e+00) -	1.92e+01 (3.14e+00) -	1.67e+01 (7.29e+00) -	1.83e+01 (5.86e+00) -	1.92e+01 (3.83e+00) -
CEC19-MaTSO2-T5	1.35e-07 (5.09e-08)	9.00e+00 (7.16e+00) -	1.90e+01 (3.36e+00) -	1.65e+01 (6.77e+00) -	1.91e+01 (4.12e+00) -	1.77e+01 (5.15e+00) -
CEC19-MaTSO2-T6	1.12e-07 (6.38e-08)	9.27e+00 (6.93e+00) -	1.90e+01 (3.18e+00) -	1.60e+01 (7.49e+00) -	1.87e+01 (4.42e+00) -	1.91e+01 (4.05e+00) -
CEC19-MaTSO2-T7	5.85e-08 (3.53e-08)	8.72e+00 (7.28e+00) -	1.89e+01 (3.32e+00) -	1.56e+01 (7.68e+00) -	1.93e+01 (3.18e+00) -	2.01e+01 (1.21e-01) -
CEC19-MaTSO2-T8	9.93e-08 (4.45e-08)	8.66e+00 (6.97e+00) -	1.91e+01 (3.18e+00) -	1.60e+01 (7.67e+00) -	2.00e+01 (4.23e-01) -	2.01e+01 (3.73e-01) -
CEC19-MaTSO2-T9	7.07e-08 (3.24e-08)	1.02e+01 (6.95e+00) -	1.90e+01 (3.35e+00) -	1.70e+01 (6.66e+00) -	2.00e+01 (1.45e-02) -	1.83e+01 (5.55e+00) -
CEC19-MaTSO2-T10	1.76e-07 (6.52e-08)	8.99e+00 (6.81e+00) -	1.89e+01 (3.25e+00) -	1.50e+01 (7.88e+00) -	1.85e+01 (5.04e+00) -	1.84e+01 (5.41e+00) -
CEC19-MaTSO2-T11	9.81e-08 (4.77e-08)	9.83e+00 (7.09e+00) -	1.91e+01 (3.22e+00) -	1.66e+01 (7.32e+00) -	2.00e+01 (1.03e-02) -	1.92e+01 (4.03e+00) -
CEC19-MaTSO2-T12	1.18e-07 (5.23e-08)	1.02e+01 (7.20e+00) -	1.92e+01 (3.10e+00) -	1.55e+01 (7.72e+00) -	1.70e+01 (6.88e+00) -	2.01e+01 (1.95e-01) -
CEC19-MaTSO2-T13	1.76e-07 (1.04e-07)	9.94e+00 (6.86e+00) -	1.91e+01 (3.01e+00) -	1.52e+01 (7.98e+00) -	2.00e+01 (1.65e-01) -	1.92e+01 (3.78e+00) -
CEC19-MaTSO2-T14	1.70e-07 (7.35e-08)	8.73e+00 (7.00e+00) -	1.90e+01 (3.28e+00) -	1.48e+01 (8.50e+00) -	1.78e+01 (5.91e+00) -	1.92e+01 (4.48e+00) -
CEC19-MaTSO2-T15	1.09e-07 (6.46e-08)	9.91e+00 (7.41e+00) -	1.91e+01 (3.06e+00) -	1.62e+01 (7.32e+00) -	1.43e+01 (8.98e+00) -	1.97e+01 (2.02e+00) -
CEC19-MaTSO2-T16	9.62e-08 (5.40e-08)	9.47e+00 (7.07e+00) -	1.91e+01 (3.14e+00) -	1.70e+01 (6.68e+00) -	1.92e+01 (3.76e+00) -	1.98e+01 (1.28e+00) -
CEC19-MaTSO2-T17	1.20e-07 (6.96e-08)	8.12e+00 (6.97e+00) -	1.92e+01 (2.96e+00) -	1.62e+01 (7.39e+00) -	1.91e+01 (4.11e+00) -	1.84e+01 (5.20e+00) -
CEC19-MaTSO2-T18	1.60e-07 (8.72e-08)	9.87e+00 (7.02e+00) -	1.91e+01 (3.10e+00) -	1.52e+01 (7.98e+00) -	1.75e+01 (6.61e+00) -	1.83e+01 (5.87e+00) -
CEC19-MaTSO2-T19	1.63e-07 (8.35e-08)	9.47e+00 (6.93e+00) -	1.91e+01 (3.08e+00) -	1.70e+01 (6.60e+00) -	1.91e+01 (4.15e+00) -	1.85e+01 (4.73e+00) -
CEC19-MaTSO2-T20	1.12e-07 (6.03e-08)	8.56e+00 (6.97e+00) -	1.91e+01 (2.94e+00) -	1.51e+01 (7.88e+00) -	2.02e+01 (1.56e-02) -	2.01e+01 (2.11e-01) -
CEC19-MaTSO2-T21	1.18e-07 (4.71e-08)	8.84e+00 (6.75e+00) -	1.89e+01 (3.35e+00) -	1.50e+01 (7.80e+00) -	1.76e+01 (6.09e+00) -	1.87e+01 (4.72e+00) -
CEC19-MaTSO2-T22	1.55e-07 (6.50e-08)	9.71e+00 (7.09e+00) -	1.91e+01 (3.00e+00) -	1.34e+01 (8.72e+00) -	1.81e+01 (5.00e+00) -	1.92e+01 (4.44e+00) -
CEC19-MaTSO2-T23	1.51e-07 (7.81e-08)	9.21e+00 (7.01e+00) -	1.91e+01 (3.19e+00) -	1.42e+01 (8.62e+00) -	1.81e+01 (5.88e+00) -	1.93e+01 (3.89e+00) -
CEC19-MaTSO2-T24	1.63e-07 (8.00e-08)	9.33e+00 (6.91e+00) -	1.91e+01 (3.10e+00) -	1.70e+01 (6.63e+00) -	1.72e+01 (7.11e+00) -	1.86e+01 (3.68e+00) -
CEC19-MaTSO2-T25	6.57e-04 (2.94e-03)	9.78e+00 (7.05e+00) -	1.90e+01 (3.23e+00) -	1.60e+01 (7.60e+00) -	1.91e+01 (4.20e+00) -	1.94e+01 (2.86e+00) -
CEC19-MaTSO2-T26	1.77e-07 (5.60e-08)	9.90e+00 (7.11e+00) -	1.91e+01 (3.05e+00) -	1.61e+01 (7.48e+00) -	1.66e+01 (6.43e+00) -	1.98e+01 (1.04e+00) -
CEC19-MaTSO2-T27	1.58e-07 (7.37e-08)	1.06e+01 (7.16e+00) -	1.90e+01 (3.32e+00) -	1.40e+01 (8.81e+00) -	1.92e+01 (3.64e+00) -	1.78e+01 (5.93e+00) -
CEC19-MaTSO2-T28	7.24e-08 (3.27e-08)	9.29e+00 (6.71e+00) -	1.91e+01 (3.14e+00) -	1.65e+01 (6.99e+00) -	1.91e+01 (4.43e+00) -	1.87e+01 (3.79e+00) -
CEC19-MaTSO2-T29	1.18e-07 (6.94e-08)	9.50e+00 (0.71c+00) -	1.91e+01 (3.26e+00) -	1.62e+01 (6.92e+00) -	1.90e+01 (4.30e+00) -	1.75e+01 (6.53e+00) -
CEC19-MaTSO2-T29	8.29e-08 (2.97e-08)	9.65e+00 (6.83e+00) -	1.91e+01 (3.08e+00) -	1.60e+01 (6.91e+00) -	1.80e+01 (5.62e+00) -	1.83e+01 (5.75e+00) -
CEC19-MaTSO2-T31	. ,	9.24e+00 (6.92e+00) -	1.91e+01 (3.16e+00) -	1.60e+01 (7.65e+00) -	` /	1.77e+01 (6.18e+00) -
	1.05e-07 (5.34e-08)			(,	1.91e+01 (4.18e+00) -	(
CEC19-MaTSO2-T32	1.66e-07 (5.64e-08)	9.83e+00 (6.85e+00) -	1.91e+01 (3.11e+00) -	1.62e+01 (7.20e+00) -	1.92e+01 (4.35e+00) -	1.84e+01 (5.40e+00) -
CEC19-MaTSO2-T33	1.83e-07 (9.33e-08)	9.15e+00 (6.71e+00) -	1.93e+01 (2.86e+00) -	1.56e+01 (7.52e+00) -	1.81e+01 (5.83e+00) -	1.79e+01 (5.71e+00) -
CEC19-MaTSO2-T34	1.66e-07 (6.63e-08)	9.79e+00 (7.19e+00) -	1.91e+01 (3.07e+00) -	1.59e+01 (7.40e+00) -	1.95e+01 (2.23e+00) -	1.85e+01 (4.77e+00) -
CEC19-MaTSO2-T35	9.78e-08 (5.56e-08)	9.20e+00 (7.02e+00) -	1.92e+01 (3.05e+00) -	1.57e+01 (7.72e+00) -	1.74e+01 (6.31e+00) -	2.01e+01 (2.84e-01) -
CEC19-MaTSO2-T36	1.05e-07 (4.33e-08)	8.63e+00 (7.44e+00) -	1.90e+01 (3.30e+00) -	1.66e+01 (6.90e+00) -	1.91e+01 (4.42e+00) -	2.02e+01 (1.71e-02) -
CEC19-MaTSO2-T37	1.04e-07 (4.83e-08)	9.64e+00 (7.33e+00) -	1.92e+01 (3.02e+00) -	1.62e+01 (7.25e+00) -	1.62e+01 (7.75e+00) -	1.92e+01 (4.15e+00) -
CEC19-MaTSO2-T38	1.39e-07 (5.87e-08)	8.99e+00 (7.12e+00) -	1.91e+01 (3.13e+00) -	1.65e+01 (7.58e+00) -	1.82e+01 (5.61e+00) -	1.74e+01 (6.50e+00) -
CEC19-MaTSO2-T39	1.14e-07 (5.29e-08)	9.40e+00 (7.07e+00) -	1.90e+01 (3.21e+00) -	1.59e+01 (7.47e+00) -	1.91e+01 (4.18e+00) -	1.85e+01 (5.10e+00) -
CEC19-MaTSO2-T40	1.55e-07 (6.96e-08)	9.40e+00 (6.98e+00) -	1.90e+01 (3.42e+00) -	1.64e+01 (6.97e+00) -	1.99e+01 (9.43e-01) -	1.87e+01 (4.29e+00) -
CEC19-MaTSO2-T41	7.72e-08 (4.10e-08)	9.81e+00 (6.91e+00) -	1.91e+01 (3.09e+00) -	1.71e+01 (6.56e+00) -	1.73e+01 (6.61e+00) -	1.71e+01 (6.56e+00) -
CEC19-MaTSO2-T42	1.55e-07 (7.26e-08)	9.47e+00 (7.30e+00) -	1.91e+01 (3.00e+00) -	1.68e+01 (7.00e+00) -	1.86e+01 (4.67e+00) -	1.93e+01 (3.27e+00) -
CEC19-MaTSO2-T43	1.64e-07 (7.91e-08)	1.02e+01 (6.91e+00) -	1.92e+01 (3.00e+00) -	1.62e+01 (7.36e+00) -	1.62e+01 (7.80e+00) -	1.92e+01 (4.43e+00) -
CEC19-MaTSO2-T44	1.60e-07 (7.92e-08)	9.77e+00 (7.10e+00) -	1.91e+01 (3.08e+00) -	1.70e+01 (6.70e+00) -	1.81e+01 (5.29e+00) -	1.94e+01 (3.39e+00) -
CEC19-MaTSO2-T45	2.53e-07 (1.03e-07)	1.01e+01 (7.14e+00) -	1.90e+01 (3.30e+00) -	1.61e+01 (7.30e+00) -	1.81e+01 (5.92e+00) -	2.00e+01 (8.58e-01) -
CEC19-MaTSO2-T46	2.10e-07 (1.73e-07)	9.40e+00 (6.85e+00) -	1.91e+01 (3.14e+00) -	1.57e+01 (7.98e+00) -	2.00e+01 (3.92e-01) -	1.74e+01 (6.50e+00) -
CEC19-MaTSO2-T47	8.23e-08 (4.11e-08)	1.00e+01 (6.85e+00) -	1.91e+01 (3.16e+00) -	1.52e+01 (8.02e+00) -	1.62e+01 (7.81e+00) -	2.01e+01 (3.18e-01) -
CEC19-MaTSO2-T48	1.30e-07 (5.93e-08)	9.94e+00 (7.37e+00) -	1.90e+01 (3.25e+00) -	1.71e+01 (6.53e+00) -	1.65e+01 (7.67e+00) -	1.87e+01 (3.95e+00) -
CEC19-MaTSO2-T49	1.63e-07 (5.35e-08)	9.72e+00 (7.19e+00) -	1.91e+01 (3.16e+00) -	1.67e+01 (7.17e+00) -	1.81e+01 (5.84e+00) -	1.84e+01 (5.47e+00) -
CEC19-MaTSO2-T50	1.23e-07 (7.98e-08)	9.05e+00 (7.24e+00) -	1.92e+01 (3.02e+00) -	1.65e+01 (6.77e+00) -	1.83e+01 (5.26e+00) -	2.01e+01 (4.97e-01) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0
		******				*****

TABLE S8

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO3 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO3 IN TEST SUITE 3.

	TID LEMBER	173 rmo) / mp =	an o	D. 60 .	
Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
CEC19-MaTSO3-T1	3.92e+02 (1.35e+01)	1.97e+02 (1.04e+02) +	4.12e+02 (1.54e+01) -	3.95e+02 (1.49e+01) =	3.22e+02 (5.28e+01) +	4.08e+02 (1.58e+01) -
CEC19-MaTSO3-T2	3.99e+02 (1.32e+01)	2.32e+02 (1.22e+02) +	4.17e+02 (1.72e+01) -	3.99e+02 (2.02e+01) =	4.06e+02 (1.86e+01) =	4.07e+02 (1.59e+01) =
CEC19-MaTSO3-T3	3.95e+02 (1.36e+01)	2.11e+02 (1.31e+02) +	4.15e+02 (1.54e+01) -	4.05e+02 (1.26e+01) -	3.17e+02 (5.07e+01) +	4.05e+02 (1.72e+01) =
CEC19-MaTSO3-T4	3.98e+02 (1.35e+01)	2.60e+02 (1.05e+02) +	4.07e+02 (2.23e+01) -	4.01e+02 (1.43e+01) =	4.07e+02 (1.64e+01) =	4.10e+02 (1.33e+01) -
CEC19-MaTSO3-T5	3.90e+02 (1.67e+01)	2.22e+02 (1.13e+02) +	4.13e+02 (1.36e+01) -	4.00e+02 (1.60e+01) -	3.62e+02 (6.39e+01) =	4.04e+02 (1.55e+01) -
CEC19-MaTSO3-T6	3.90e+02 (8.89e+00)	2.27e+02 (9.20e+01) +	4.18e+02 (1.95e+01) -	4.09e+02 (1.82e+01) -	4.07e+02 (1.33e+01) -	4.01e+02 (1.71e+01) -
CEC19-MaTSO3-T7	3.89e+02 (1.69e+01)	2.28e+02 (1.07e+02) +	4.13e+02 (1.66e+01) -	4.05e+02 (1.49e+01) -	3.14e+02 (5.08e+01) +	4.09e+02 (1.51e+01) -
CEC19-MaTSO3-T8	3.96e+02 (1.10e+01)	1.94e+02 (8.82e+01) +	4.07e+02 (1.63e+01) -	4.04e+02 (2.06e+01) -	4.18e+02 (1.96e+01) -	4.13e+02 (1.36e+01) -
CEC19-MaTSO3-T9	3.91e+02 (1.54e+01)	2.11e+02 (1.05e+02) +	4.14e+02 (1.56e+01) -	4.01e+02 (1.59e+01) =	3.34e+02 (5.60e+01) +	4.11e+02 (1.33e+01) -
CEC19-MaTSO3-T10	3.89e+02 (1.91e+01)	2.16e+02 (1.11e+02) +	4.13e+02 (1.79e+01) -	4.04e+02 (1.97e+01) =	4.11e+02 (1.71e+01) -	4.12e+02 (1.62e+01) -
CEC19-MaTSO3-T11	3.90e+02 (1.46e+01)	1.76e+02 (1.08e+02) +	4.17e+02 (1.22e+01) -	4.09e+02 (1.40e+01) -	3.24e+02 (5.47e+01) +	4.01e+02 (1.60e+01) -
CEC19-MaTSO3-T12	3.95e+02 (1.41e+01)	2.16e+02 (1.02e+02) +	4.19e+02 (1.59e+01) -	4.04e+02 (1.36e+01) =	4.05e+02 (1.30e+01) -	4.15e+02 (1.40e+01) -
CEC19-MaTSO3-T13	3.86e+02 (1.74e+01)	2.28e+02 (9.85e+01) +	4.16e+02 (1.75e+01) -	3.96e+02 (1.24e+01) =	3.12e+02 (5.37e+01) +	4.07e+02 (1.57e+01) -
CEC19-MaTSO3-T14	3.99e+02 (1.37e+01)	2.06e+02 (9.70e+01) +	4.11e+02 (1.51e+01) -	4.04e+02 (1.51e+01) =	4.07e+02 (1.68e+01) =	4.07e+02 (1.41e+01) =
CEC19-MaTSO3-T15	3.88e+02 (1.84e+01)	2.58e+02 (1.45e+02) +	4.16e+02 (1.62e+01) -	4.09e+02 (1.41e+01) -	3.08e+02 (5.60e+01) +	4.04e+02 (1.28e+01) -
CEC19-MaTSO3-T16	3.94e+02 (1.85e+01)	2.09e+02 (1.05e+02) +	4.21e+02 (1.62e+01) -	4.09e+02 (1.48e+01) -	4.08e+02 (1.63e+01) -	4.13e+02 (1.77e+01) -
CEC19-MaTSO3-T17	3.93e+02 (1.52e+01)	2.26e+02 (1.10e+02) +	4.10e+02 (1.68e+01) -	4.00e+02 (1.53e+01) =	3.52e+02 (7.33e+01) +	4.13e+02 (1.03e+01) -
CEC19-MaTSO3-T18	3.95e+02 (1.56e+01)	2.13e+02 (1.22e+02) +	4.18e+02 (1.37e+01) -	4.05e+02 (1.63e+01) =	4.07e+02 (1.79e+01) -	4.09e+02 (1.67e+01) -
CEC19-MaTSO3-T19	3.95e+02 (1.33e+01)	2.02e+02 (8.77e+01) +	4.15e+02 (1.71e+01) -	4.09e+02 (1.65e+01) -	3.02e+02 (4.94e+01) +	4.14e+02 (1.49e+01) -
CEC19-MaTSO3-T20	3.89e+02 (1.82e+01)	2.17e+02 (1.04e+02) +	4.10e+02 (1.39e+01) -	4.01e+02 (2.14e+01) -	4.07e+02 (1.41e+01) -	4.06e+02 (1.66e+01) -
CEC19-MaTSO3-T21	3.92e+02 (1.52e+01)	1.78e+02 (8.59e+01) +	4.08e+02 (1.68e+01) -	4.06e+02 (1.57e+01) -	3.11e+02 (6.19e+01) +	4.16e+02 (1.62e+01) -
CEC19-MaTSO3-T22	3.88e+02 (1.37e+01)	2.45e+02 (1.12e+02) +	4.08e+02 (1.58e+01) -	4.07e+02 (1.69e+01) -	4.09e+02 (1.81e+01) -	4.06e+02 (1.36e+01) -
CEC19-MaTSO3-T23	3.92e+02 (1.86e+01)	2.49e+02 (1.37e+02) +	4.19e+02 (1.72e+01) -	4.06e+02 (9.49e+00) -	3.20e+02 (5.81e+01) +	4.11e+02 (1.55e+01) -
CEC19-MaTSO3-T24	3.94e+02 (1.19e+01)	2.03e+02 (8.35e+01) +	4.15e+02 (1.88e+01) -	4.04e+02 (1.47e+01) -	4.11e+02 (1.66e+01) -	4.07e+02 (1.71e+01) -
CEC19-MaTSO3-T25	3.95e+02 (1.27e+01)	1.98e+02 (1.08e+02) +	4.17e+02 (1.62e+01) -	4.01e+02 (1.59e+01) =	3.03e+02 (5.23e+01) +	4.17e+02 (1.66e+01) -
CEC19-MaTSO3-T26	3.91e+02 (1.45e+01)	2.52e+02 (1.41e+02) +	4.13e+02 (1.73e+01) -	4.09e+02 (1.78e+01) -	3.99e+02 (1.83e+01) =	4.06e+02 (1.48e+01) -
CEC19-MaTSO3-T27	3.97e+02 (1.29e+01)	2.42e+02 (1.16e+02) +	4.14e+02 (1.60e+01) -	4.01e+02 (1.74e+01) =	3.33e+02 (6.44e+01) +	4.07e+02 (1.14e+01) -
CEC19-MaTSO3-T28	3.96e+02 (1.81e+01)	2.50e+02 (1.22e+02) +	4.07e+02 (1.97e+01) =	4.02e+02 (1.43e+01) =	4.13e+02 (1.96e+01) -	4.10e+02 (1.85e+01) -
CEC19-MaTSO3-T29	3.93e+02 (1.66e+01)	2.18e+02 (1.22e+02) +	4.08e+02 (1.61e+01) -	4.04e+02 (2.99e+01) -	3.38e+02 (5.78e+01) +	4.09e+02 (2.25e+01) -
CEC19-MaTSO3-T30	3.98e+02 (1.22e+01)	2.16e+02 (8.66e+01) +	4.14e+02 (1.94e+01) -	4.04e+02 (1.54e+01) =	4.06e+02 (2.02e+01) =	4.09e+02 (1.95e+01) -
CEC19-MaTSO3-T31	3.94e+02 (1.71e+01)	2.35e+02 (8.24e+01) +	4.07e+02 (1.96e+01) -	4.07e+02 (1.54e+01) -	3.25e+02 (5.36e+01) +	4.07e+02 (1.32e+01) -
CEC19-MaTSO3-T32	3.94e+02 (1.31e+01)	2.05e+02 (1.11e+02) +	4.17e+02 (1.83e+01) -	4.05e+02 (1.37e+01) -	4.10e+02 (1.90e+01) -	4.02e+02 (1.87e+01) =
CEC19-MaTSO3-T33	3.89e+02 (1.95e+01)	2.34e+02 (1.07e+02) +	4.19e+02 (1.77e+01) -	4.02e+02 (1.74e+01) -	3.40e+02 (6.19e+01) +	4.06e+02 (1.35e+01) -
CEC19-MaTSO3-T34	3.97e+02 (1.54e+01)	1.98e+02 (1.13e+02) +	4.14e+02 (1.67e+01) -	4.06e+02 (1.90e+01) =	4.15e+02 (1.07e+01) -	4.11e+02 (1.20e+01) -
CEC19-MaTSO3-T35	3.88e+02 (2.30e+01)	2.18e+02 (1.02e+02) +	4.08e+02 (1.64e+01) -	4.10e+02 (1.24e+01) -	3.43e+02 (6.52e+01) +	4.11e+02 (1.69e+01) -
CEC19-MaTSO3-T36	3.90e+02 (1.84e+01)	1.91e+02 (8.90e+01) +	4.13e+02 (1.86e+01) -	4.04e+02 (2.01e+01) -	4.09e+02 (1.86e+01) -	4.05e+02 (1.55e+01) -
CEC19-MaTSO3-T37	3.93e+02 (1.63e+01)	2.33e+02 (1.04e+02) +	4.19e+02 (1.65e+01) -	4.06e+02 (1.08e+01) -	3.09e+02 (6.52e+01) +	4.13e+02 (1.53e+01) -
CEC19-MaTSO3-T38	3.96e+02 (1.54e+01)	2.55e+02 (1.20e+02) +	4.16e+02 (1.53e+01) -	4.06e+02 (1.71e+01) =	3.99e+02 (1.69e+01) =	4.12e+02 (1.53e+01) -
CEC19-MaTSO3-T39	3.97e+02 (1.24e+01)	2.17e+02 (1.12e+02) +	4.12e+02 (1.48e+01) -	4.06e+02 (1.50e+01) =	3.44e+02 (6.87e+01) +	4.03e+02 (1.15e+01) =
CEC19-MaTSO3-T40	3.98e+02 (1.51e+01)	2.18e+02 (1.18e+02) +	4.17e+02 (1.52e+01) -	4.05e+02 (1.13e+01) =	4.04e+02 (1.56e+01) =	4.04e+02 (1.70e+01) =
CEC19-MaTSO3-T41	3.90e+02 (2.10e+01)	1.98e+02 (9.05e+01) +	4.18e+02 (1.33e+01) -	4.07e+02 (1.63e+01) -	3.05e+02 (4.59e+01) +	4.13e+02 (1.49e+01) -
CEC19-MaTSO3-T42	3.92e+02 (1.59e+01)	2.44e+02 (1.28e+02) +	4.10e+02 (1.71e+01) -	4.00e+02 (1.48e+01) =	4.04e+02 (2.40e+01) -	4.07e+02 (1.47e+01) -
CEC19-MaTSO3-T43	3.90e+02 (1.23e+01)	2.05e+02 (1.01e+02) +	4.15e+02 (1.53e+01) -	4.10e+02 (1.11e+01) -	3.22e+02 (6.70e+01) +	4.11e+02 (1.51e+01) -
CEC19-MaTSO3-T44	3.87e+02 (1.81e+01)	1.76e+02 (8.32e+01) +	4.08e+02 (1.94e+01) -	4.04e+02 (2.12e+01) -	4.15e+02 (1.30e+01) -	4.06e+02 (1.57e+01) -
CEC19-MaTSO3-T45	3.94e+02 (1.64e+01)	2.18e+02 (1.15e+02) +	4.17e+02 (1.44e+01) -	4.03e+02 (1.73e+01) =	3.37e+02 (7.23e+01) +	4.10e+02 (1.66e+01) -
CEC19-MaTSO3-T46	3.91e+02 (1.75e+01)	2.22e+02 (1.08e+02) +	4.15e+02 (1.86e+01) -	4.03e+02 (1.90e+01) -	4.01e+02 (1.98e+01) =	4.04e+02 (1.51e+01) -
CEC19-MaTSO3-T47	3.95e+02 (1.58e+01)	2.07e+02 (9.67e+01) +	4.10e+02 (1.86e+01) -	3.95e+02 (1.96e+01) =	3.29e+02 (6.13e+01) +	4.07e+02 (1.88e+01) -
CEC19-MaTSO3-T48	3.92e+02 (1.54e+01)	2.24e+02 (1.13e+02) +	4.08e+02 (1.55e+01) -	4.05e+02 (1.58e+01) -	4.06e+02 (1.58e+01) -	4.08e+02 (1.84e+01) -
CEC19-MaTSO3-T49	3.96e+02 (2.00e+01)	2.42e+02 (1.16e+02) +	4.15e+02 (1.75e+01) -	4.01e+02 (1.43e+01) =	3.10e+02 (4.90e+01) +	4.11e+02 (1.78e+01) -
CEC19-MaTSO3-T50	3.91e+02 (1.65e+01)	1.75e+02 (7.41e+01) +	4.11e+02 (2.20e+01) -	4.02e+02 (1.73e+01) -	4.09e+02 (1.48e+01) -	4.06e+02 (1.19e+01) -
+/-/=	Base	50/0/0	0/49/1	0/28/22	24/17/9	0/44/6
		1	l .	l .	1	1

TABLE S9

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO4 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO4 IN TEST SUITE 3.

Problem RE-MITDE AEMITO MaTDE SBO EMICA DE							
ECEP MATSOA 17 276-07 (7.276-07)	Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
ECE19MaTSO414 128-06 (776-07) 209-02 (531-02) 1.39-02 (430-03) 2.15-03 (3.41-03) 4.70-02) 4.50-03 (1.93-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.70-03 (1.10-03) 4.	CEC19-MaTSO4-T1	1.22e-06 (7.14e-07)	1.99e-02 (3.90e-02) -	1.22e-02 (5.65e-03) -	5.63e-04 (1.66e-03) -	1.82e-01 (4.22e-02) -	3.89e-03 (1.16e-03) -
CECPMATSO4-174 128-06 (7.76c-07) 293-02 (5.51-02) 1.30c-02 (4.30c-03) 2.13c-03 (1.14c-03) 425-03 (2.03c-03) 4.74c-03 (1.84c-03) 4.84c-03 (2.04c-03) 4.84c-03 (CEC19-MaTSO4-T2	9.26e-07 (7.27e-07)	1.86e-02 (3.40e-02) -	1.25e-02 (3.31e-03) -	2.11e-03 (7.87e-04) -	3.64e-03 (1.31e-03) -	4.34e-03 (1.55e-03) -
CECPMATSOATS 162-06 (1.09-60) 3.75-02 (5.17-6.02) 1.25-0.02 (4.92-0.03) 2.31-6.03 (9.71-6.04) 1.70-61 (3.83-6.02) 3.85-6.03 (1.25-6.03) 1.25-0.03 (1.00-6.03) 3.85-0.02 (5.98-6.02) 1.35-0.02 (4.76-0.03) 4.46-0.03 (3.85-0.03) 4.46-0.03 (3.99-0.02) 3.89-0.03 (9.90-0.04) 1.25-0.02 (3.00-0.03) 4.40-0.03 (3.85-0.03) 4.40-0.03 (3.00-0.03) 4.40-0.03 (3.00-0.03) 4.40-0.03 (3.00-0.03) 4.40-0.03 (3.00-0.03) 4.40-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03) 4.20-0.03 (3.00-0.03)	CEC19-MaTSO4-T3	3.72e-04 (1.65e-03)	2.11e-02 (2.77e-02) -	1.29e-02 (4.59e-03) -	2.25e-03 (8.44e-04) -	1.76e-01 (4.37e-02) -	4.50e-03 (1.93e-03) -
CEC19MaTSO4-176 1.66c-06 (1.07c-06) 3.11c-02 (5.63c-02) 1.43c-02 (4.13c-03) 2.84c-03 (1.32c-03) 4.84c-03 (2.04c-03) 3.89c-03 (9.90c-04) CEC19MaTSO4-178 2.29c-06 (1.36c-06) 3.86c-02 (4.71c-02) 1.42c-02 (6.76c-03) 2.38c-03 (1.92c-03) 5.66c-03 (1.91c-03) 3.89c-03 (9.30c-04) CEC19MaTSO4-179 2.43c-06 (1.46c-06) 1.92c-02 (2.53c-02) 1.26c-02 (2.00c-03) 2.55c-03 (1.80c-03) 5.66c-03 (1.91c-03) 4.20c-03 (1.36c-03) 4.20c-03 (CEC19-MaTSO4-T4	1.28e-06 (7.76e-07)	2.93e-02 (5.51e-02) -	1.30e-02 (4.30e-03) -	2.13e-03 (1.14e-03) -	4.25e-03 (2.03e-03) -	4.74e-03 (1.84e-03) -
EEC 9MaTS04-TP 227e-06 (1.35e-06) 3.54e-02 (5.98e-02) 1.35e-02 (4.47e-03) 4.14e-03 (8.85e-03) 1.65e-01 (3.99e-02) 3.89e-03 (9.30e-04) EEC 99MaTS04-TP 2.43e-06 (1.36e-06) 1.92e-02 (2.53e-02) 1.26e-02 (4.20e-03) 2.37e-03 (1.80e-03) 5.06e-03 (1.90e-03) 4.76e-03 (1.56e-03) 1.56e-03 (1.60e-03) 2.57e-03 (1.80e-03) 5.07e-03 (2.00e-03) 4.76e-03 (1.56e-03) 4.76e-04 (1.00e-04) 4.76e-04	CEC19-MaTSO4-T5	1.62e-06 (1.03e-06)	3.57e-02 (5.17e-02) -	1.20e-02 (4.92e-03) -	2.31e-03 (9.71e-04) -	1.70e-01 (3.83e-02) -	3.65e-03 (1.25e-03) -
ECE19MaTSO4-TP 2.39e.06 (1.36e.06) 3.68e.02 (4.71e.02) 1.42e.02 (6.76e.03) 2.35e.03 (1.92e.03) 5.00e.03 (1.91e.03) 4.20e.03 (1.56e.03) CEC19MaTSO4-TI0 1.38e.06 (9.07e.07) 4.52e.02 (1.05e.01) 1.15e.02 (2.01e.03) 2.01e.03 (1.09e.03) 5.07e.03 (2.20e.03) 4.22e.03 (1.36e.03) CEC19MaTSO4-TI1 1.31e.06 (1.44e.06) 1.79e.02 (2.32e.02) 1.66e.02 (3.25e.03) 2.01e.03 (1.09e.03) 5.07e.03 (2.20e.03) 4.22e.03 (1.36e.03) CEC19MaTSO4-TI1 3.15e.06 (1.44e.06) 1.79e.02 (2.32e.02) 1.66e.02 (3.25e.03) 2.01e.03 (1.09e.03) 5.07e.03 (2.20e.03) 4.22e.03 (1.36e.03) CEC19MaTSO4-TI2 3.45e.02 (3.32e.03) 4.45e.02 (4.57e.03) 2.10e.03 (1.03e.03) 4.87e.03 (2.20e.03) 5.63e.03 (3.27e.03) CEC19MaTSO4-TI3 2.58e.06 (1.38e.06) 2.12e.02 (3.13e.02) 1.10e.02 (4.78e.03) 2.12le.03 (1.51e.03) 4.87e.03 (2.20e.03) 5.63e.03 (3.27e.03) CEC19MaTSO4-TI4 8.09e.07 (3.50e.07) 3.44e.02 (7.65e.09) 2.12e.02 (3.35e.03) 2.31e.03 (3.86e.04) 4.40e.03 (1.25e.03) 4.93e.03 (1.82e.03) CEC19MaTSO4-TI5 7.29e.06 (1.27e.06) 3.24e.02 (1.36e.03) 2.31e.03 (1.03e.03) 4.43e.03 (1.59e.03) 4.93e.03 (1.82e.03) CEC19MaTSO4-TI5 7.29e.06 (1.12e.06) 2.59e.02 (6.00e.02) 2.27e.02 (5.52e.03) 2.20e.03 (1.03e.03) 4.43e.03 (1.59e.03) 5.80e.03 (2.72e.03) CEC19MaTSO4-TI6 1.65e.01 (3.66e.01) 2.28e.02 (6.00e.02) 2.26e.02 (3.36e.03) 2.21e.03 (1.03e.03) 4.43e.03 (1.59e.03) 4.89e.03 (1.25e.03) 4.49e.03 (1.25e.0	CEC19-MaTSO4-T6	1.66e-06 (1.07e-06)	3.11e-02 (5.63e-02) -	1.43e-02 (4.13e-03) -	2.84e-03 (1.43e-03) -	4.84e-03 (2.04e-03) -	4.66e-03 (9.90e-04) -
ECE19MaTSO4-TP 2.43e-06 (1.46e-06) 1.92e-02 (2.53e-02) 1.26e-02 (4.20e-03) 2.57e-03 1.06e-01 (1.06e-03) 1.06e-01 (3.45e-02) 4.12e-03 (1.176e-03) 1.06e-01 (1.06e-03) 1.06e-01 (1.06	CEC19-MaTSO4-T7	2.27e-06 (1.36e-06)	3.54e-02 (5.98e-02) -	1.33e-02 (4.47e-03) -	4.14e-03 (8.85e-03) -	1.64e-01 (3.99e-02) -	3.89e-03 (9.30e-04) -
EEC 9MaTSO4-T10 1.38e-06 (9.07e-07) 4.52e-02 (1.05e-01) 1.15e-02 (2.05e-03) 2.01e-03) 5.77e-03 (2.00e-03) 4.32e-03 (1.36e-03) 4.80e-03 (1.65e-05) 4.80e-03 (1.77e-05) 4.80e-03 (1.	CEC19-MaTSO4-T8	2.39e-06 (1.26e-06)	3.68e-02 (4.71e-02) -	1.42e-02 (6.76e-03) -	2.35e-03 (1.92e-03) -	5.06e-03 (1.91e-03) -	4.20e-03 (1.36e-03) -
CEC 9MaTSO4-TI2	CEC19-MaTSO4-T9	2.43e-06 (1.46e-06)	1.92e-02 (2.53e-02) -	1.26e-02 (4.20e-03) -	2.57e-03 (1.80e-03) -	1.64e-01 (3.45e-02) -	4.12e-03 (1.76e-03) -
ECEIDMATISOL-T12	CEC19-MaTSO4-T10	1.38e-06 (9.07e-07)	4.52e-02 (1.05e-01) -	1.15e-02 (2.01e-03) -	2.01e-03 (1.09e-03) -	5.07e-03 (2.20e-03) -	4.22e-03 (1.36e-03) -
EEC19MaTSO4-T13 2.58e-06 (1.88e-06) 2.12e-02 (3.13e-02) 1.10e-02 (4.78e-03) 2.12e-03 (1.51e-03) 1.82e-01 (3.97e-02) 4.24e-03 (1.41e-03) 1.26e-02 (3.05e-03) 1.86e-03 (6.88e-03) 4.26e-03 (1.25e-03) 4.93e-03 (1.82e-03) 4.93e-03 (1.82e-03) 1.86e-03 (1.05e-03) 1.	CEC19-MaTSO4-T11	1.81e-06 (1.44e-06)	1.79e-02 (3.29e-02) -	1.16e-02 (3.25e-03) -	1.92e-03 (9.45e-04) -	1.68e-01 (3.20e-02) -	4.80e-03 (1.60e-03) -
ECE19MaTSO4-T14	CEC19-MaTSO4-T12	1.41e-06 (7.73e-07)	3.43e-02 (8.39e-02) -	1.45e-02 (4.57e-03) -	2.10e-03 (1.03e-03) -	4.87e-03 (2.29e-03) -	5.63e-03 (3.27e-03) -
ECE19MaTSO4-T15 3.72e-04 (1.65e-03) 5.2e-02 (1.95e-01) 1.21e-02 (3.36e-03) 2.23e-03 (1.20e-03) 4.36e-03 5.26e-03 (2.72e-03) 6.72e-04 (5.52e-03) 2.20e-03 (1.03e-03) 4.36e-03 5.26e-03 (2.72e-03) 6.72e-04 (5.52e-03) 7.20e-04 (1.03e-03) 4.36e-03 6.72e-03 (3.62e-03) 6.72e-03 (1.03e-03) 4.36e-03 (1.03e-03) 4.36e-03 (1.03e-03) 6.72e-03 (1.03	CEC19-MaTSO4-T13	2.58e-06 (1.88e-06)	2.12e-02 (3.13e-02) -	1.10e-02 (4.78e-03) -	2.21e-03 (1.51e-03) -	1.82e-01 (3.97e-02) -	4.24e-03 (1.41e-03) -
ECEI9MaTSO4-T16	CEC19-MaTSO4-T14	8.09e-07 (3.50e-07)	3.44e-02 (7.65e-02) -	1.11e-02 (4.57e-03) -	1.80e-03 (6.88e-04) -	4.40e-03 (1.25e-03) -	4.93e-03 (1.82e-03) -
ECC19-MATSO4-T17	CEC19-MaTSO4-T15	3.72e-04 (1.65e-03)	5.20e-02 (1.05e-01) -	1.21e-02 (3.36e-03) -	2.31e-03 (7.30e-04) -	1.67e-01 (3.82e-02) -	4.89e-03 (1.77e-03) -
ECE19-MaTSO4-T18	CEC19-MaTSO4-T16	2.99e-06 (2.72e-06)	1.34e-02 (1.36e-02) -	1.27e-02 (5.52e-03) -	2.20e-03 (1.03e-03) -	4.43e-03 (1.59e-03) -	5.80e-03 (2.72e-03) -
EEC19-MaTSO4-T20	CEC19-MaTSO4-T17	1.50e-06 (1.11e-06)	2.59e-02 (8.02e-02) -	1.26e-02 (5.31e-03) -	2.12e-03 (1.40e-03) -	1.70e-01 (5.25e-02) -	4.21e-03 (1.46e-03) -
CEC19-MaTSO4-T20	CEC19-MaTSO4-T18	1.65e-06 (1.04e-06)	2.69e-02 (6.00e-02) -	1.38e-02 (6.07e-03) -	1.85e-03 (6.73e-04) -	4.82e-03 (1.82e-03) -	4.39e-03 (1.61e-03) -
CEC19-MaTSO4-T21 1,72e-06 (8.11e-07) 1,31e-02 (1,17e-02) 1,37e-02 (6.40e-03) 2,13e-03 (1,17e-03) 1,78e-01 (4.24e-02) 4,37e-03 (1,29e-03) CEC19-MaTSO4-T22 3,71e-04 (1,65e-03) 2,59e-02 (3,23e-02) 1,22e-02 (3,51e-03) 2,23e-03 (1,42e-03) 4,14e-03 (1,70e-03) 4,67e-03 (1,55e-03) CEC19-MaTSO4-T24 1,31e-06 (8.94e-07) 3,00e-02 (3,49e-02) 1,32e-02 (4,10e-03) 1,89e-03 (6,02e-04) 4,17e-03 (1,22e-03) 4,57e-03 (1,55e-03) CEC19-MaTSO4-T25 1,75e-06 (1,18e-06) 3,10e-02 (1,40e-01) 1,7e-02 (4,89e-03) 2,66e-03 (2,05e-03) 4,02e-03 (1,43e-03) 4,38e-03 (1,63e-03) CEC19-MaTSO4-T25 1,75e-06 (1,18e-06) 6,52e-02 (1,44e-01) 1,29e-02 (4,01e-03) 2,29e-03 (1,54e-03) 4,02e-03 (1,43e-03) 4,38e-03 (1,63e-03) CEC19-MaTSO4-T27 1,12e-06 (5,67e-07) 6,52e-02 (1,40e-01) 1,17e-02 (3,46e-03) 2,45e-03 (1,19e-03) 1,59e-01 (3,97e-02) 4,40e-03 (1,40e-03) CEC19-MaTSO4-T27 1,7e-06 (1,12e-06) 3,46e-02 (3,43e-02) 1,36e-02 (5,47e-03) 2,48e-03 (1,90e-03) 1,59e-01 (4,97e-02) 4,40e-03 (1,79e-03) CEC19-MaTSO4-T29 1,77e-06 (1,12e-06) 3,46e-02 (3,43e-02) 1,38e-02 (6,17e-03) 2,248e-03 (1,06e-03) 1,59e-01 (4,02e-02) 4,68e-03 (1,38e-03) CEC19-MaTSO4-T30 2,31e-06 (1,01e-06) 1,71e-02 (2,22e-02) 1,27e-02 (4,15e-03) 2,248e-03 (1,82e-03) 1,51e-01 (3,97e-02) 4,49e-03 (1,38e-03) CEC19-MaTSO4-T31 1,64e-06 (1,04e-06) 3,31e-02 (4,41e-02) 1,27e-02 (4,15e-03) 2,25e-03 (1,87e-03) 1,51e-01 (3,97e-02) 4,49e-03 (1,38e-03) CEC19-MaTSO4-T33 8,86e-07 (6,00e-07) 4,07e-02 (1,05e-01) 1,41e-02 (4,02e-03) 2,51e-03 (1,87e-03) 1,70e-01 (4,00e-02) 4,49e-03 (1,09e-03) CEC19-MaTSO4-T33 1,40e-06 (6,00e-07) 2,68e-02 (5,18e-02) 1,38e-02 (6,57e-03) 2,29e-03 (1,87e-03) 1,70e-01 (4,00e-02) 4,49e-03 (1,09e-03) CEC19-MaTSO4-T33 1,40e-06 (6,00e-07) 2,68e-02 (5,32e-02) 1,38e-02 (6,57e-03) 2,29e-03 (1,87e-03) 1,70e-01 (4,00e-02) 4,49e-03 (1,09e-03) CEC19-MaTSO4-T33 1,40e-06 (6,00e-07) 2,68e-02 (5,32e-02) 1,38e-02 (6,57e-03	CEC19-MaTSO4-T19	2.23e-06 (1.46e-06)	2.28e-02 (2.44e-02) -	1.20e-02 (3.95e-03) -	1.86e-03 (7.20e-04) -	1.69e-01 (3.18e-02) -	4.46e-03 (1.17e-03) -
ECC19-MaTS04-T22	CEC19-MaTSO4-T20	1.42e-06 (7.07e-07)	2.47e-02 (2.78e-02) -	1.29e-02 (4.05e-03) -	1.91e-03 (7.45e-04) -	4.81e-03 (1.51e-03) -	4.52e-03 (2.08e-03) -
CEC19-MaTSO4-T23 3.71e-04 (1.65e-03) 2.59e-02 (3.23e-02) 1.22e-02 (3.59e-03) 2.30e-03 (1.17e-03) 1.81e-01 (3.14e-02) 4.67e-03 (1.55e-03) CEC19-MaTSO4-T24 1.31e-06 (8.94e-07) 3.00e-02 (3.49e-02) 1.77e-02 (4.89e-03) 2.66e-03 (2.05e-03) 4.77e-03 (1.12e-03) 4.55e-03 (1.68e-03) CEC19-MaTSO4-T25 1.75e-06 (1.18e-06) 1.31e-02 (1.16e-02) 1.17e-02 (4.89e-03) 2.29e-03 (1.54e-03) 4.02e-03 (1.43e-03) 4.38e-03 (1.63e-03) CEC19-MaTSO4-T26 1.74e-06 (8.62e-07) 6.65e-02 (1.44e-01) 1.17e-02 (3.46e-03) 2.29e-03 (1.54e-03) 4.02e-03 (1.43e-03) 4.38e-03 (1.68e-03) CEC19-MaTSO4-T27 1.12e-06 (5.67e-07) 6.52e-02 (1.40e-01) 1.17e-02 (3.46e-03) 2.45e-03 (1.19e-03) 4.59e-03 (1.99e-03) 4.39e-03 (1.79e-03) CEC19-MaTSO4-T29 1.77e-06 (1.12e-06) 2.91e-02 (8.25e-02) 1.30e-02 (5.47e-03) 3.60e-03 (1.09e-03) 4.59e-03 (1.99e-03) 4.39e-03 (1.79e-03) CEC19-MaTSO4-T39 2.31e-06 (1.10e-06) 1.71e-02 (2.22e-02) 1.25e-02 (6.17e-03) 2.32e-03 (1.06e-03) 1.59e-01 (4.02e-02) 4.68e-03 (1.38e-03) CEC19-MaTSO4-T31 1.64e-06 (1.04e-06) 3.31e-02 (4.41e-02) 1.21e-02 (4.15e-03) 2.51e-03 (1.28e-03) 1.51e-01 (3.97e-02) 4.49e-03 (1.49e-03) CEC19-MaTSO4-T32 1.33e-06 (8.60e-07) 1.47e-02 (1.97e-02) 1.24e-02 (4.08e-03) 2.50e-03 (1.29e-03) 4.59e-03 (1.09e-03) 4.99e-03 (1.09e-03) CEC19-MaTSO4-T33 1.36e-06 (6.08e-07) 4.00e-07 (5.7e-02 (1.05e-01) 1.41e-02 (4.02e-03) 2.50e-03 (1.29e-03) 4.59e-03 (1.09e-03) 4.49e-03 (1.49e-03) CEC19-MaTSO4-T33 1.80e-06 (6.08e-07) 4.00e-02 (9.99e-02) 1.34e-02 (4.05e-03) 2.50e-03 (1.29e-03) 4.78e-03 (1.91e-03) 4.28e-03 (1.06e-03) CEC19-MaTSO4-T33 1.80e-06 (6.08e-07) 2.68e-02 (5.18e-02) 1.38e-02 (6.07e-03) 2.29e-03 (1.38e-03) 4.78e-03 (1.50e-03) 4.29e-03 (1.06e-03) CEC19-MaTSO4-T33 1.80e-06 (6.08e-07) 2.29e-02 (8.18e-02) 1.38e-02 (6.07e-03) 2.29e-03 (1.79e-03) 4.79e-03 (1.50e-03) 4.79e-03 (1.50e-03) CEC19-MaTSO4-T34 1.34e-06 (9.00e-07) 2.79e-02 (2.58e-02) 1.38e-02	CEC19-MaTSO4-T21	1.72e-06 (8.11e-07)	1.31e-02 (1.17e-02) -	1.27e-02 (6.40e-03) -	2.13e-03 (1.17e-03) -	1.78e-01 (4.24e-02) -	4.33e-03 (1.29e-03) -
CEC19-MaTSO4-T25	CEC19-MaTSO4-T22	8.64e-04 (2.69e-03)	2.86e-02 (5.19e-02) -	1.35e-02 (3.51e-03) -	2.25e-03 (9.42e-04) -	4.14e-03 (1.70e-03) -	3.97e-03 (1.29e-03) -
CEC19-MaTSO4-T25	CEC19-MaTSO4-T23	3.71e-04 (1.65e-03)	2.59e-02 (3.23e-02) -	1.22e-02 (3.59e-03) -	2.30e-03 (1.17e-03) -	1.81e-01 (3.14e-02) -	4.67e-03 (1.55e-03) -
CEC19-MaTSO4-T26	CEC19-MaTSO4-T24	1.31e-06 (8.94e-07)	3.00e-02 (3.49e-02) -	1.33e-02 (4.10e-03) -	1.89e-03 (6.02e-04) -	4.17e-03 (1.22e-03) -	4.55e-03 (1.68e-03) -
CEC19-MaTSO4-T27	CEC19-MaTSO4-T25	1.75e-06 (1.18e-06)	1.31e-02 (1.16e-02) -	1.17e-02 (4.89e-03) -	2.66e-03 (2.05e-03) -	1.69e-01 (4.09e-02) -	4.82e-03 (1.63e-03) -
CEC19-MaTSO4-T28 2.30e-06 (1.20e-06) 2.91e-02 (8.25e-02) 1.30e-02 (5.47e-03) 3.60e-03 (4.94e-03) 4.59e-03 (1.90e-03) 4.39e-03 (1.79e-03) CEC19-MaTSO4-T29 1.77e-06 (1.12e-06) 3.46e-02 (3.43e-02) 1.38e-02 (6.17e-03) 2.32e-03 (1.06e-03) 1.59e-01 (4.02e-02) 4.68e-03 (1.83e-03) CEC19-MaTSO4-T31 1.64e-06 (1.04e-06) 3.31e-02 (4.41e-02) 1.21e-02 (4.15e-03) 2.48e-03 (8.42e-04) 5.31e-03 (1.68e-03) 5.52e-03 (1.63e-03) CEC19-MaTSO4-T32 1.33e-06 (8.60e-07) 1.47e-02 (1.97e-02) 1.24e-02 (4.08e-03) 3.00e-03 (1.87e-03) 4.58e-03 (1.91e-03) 4.28e-03 (1.06e-03) 4.28e-03 (8.00e-07) 4.00e-02 (9.99e-02) 1.24e-02 (4.08e-03) 3.00e-03 (1.87e-03) 4.58e-03 (1.91e-03) 4.28e-03 (1.06e-03) 4.76e-03 (1.36e-03) 4.76e-03 (CEC19-MaTSO4-T26	1.74e-06 (8.62e-07)	6.62e-02 (1.44e-01) -	1.29e-02 (4.01e-03) -	2.29e-03 (1.54e-03) -	4.02e-03 (1.43e-03) -	4.38e-03 (1.68e-03) -
$ \begin{array}{c} \text{CEC19-MaTSO4-T29} & 1.77e-06 \ (1.12e-06) & 3.46e-02 \ (3.43e-02) - & 1.38e-02 \ (6.17e-03) - & 2.32e-03 \ (1.06e-03) - & 1.59e-01 \ (4.02e-02) - & 4.68e-03 \ (1.83e-03) - \\ \text{CEC19-MaTSO4-T30} & 2.31e-06 \ (1.01e-06) & 1.71e-02 \ (2.22e-02) - & 1.25e-02 \ (6.17e-03) - & 2.48e-03 \ (8.42e-04) - & 5.31e-03 \ (1.86e-03) - & 5.52e-03 \ (1.63e-03) - \\ \text{CEC19-MaTSO4-T32} & 1.36e-06 \ (1.04e-06) & 3.31e-02 \ (4.41e-02) - & 1.21e-02 \ (4.15e-03) - & 2.51e-03 \ (1.28e-03) - & 1.51e-01 \ (3.97e-02) - & 4.49e-03 \ (1.08e-03) - \\ \text{CEC19-MaTSO4-T32} & 1.33e-06 \ (8.60e-07) & 1.47e-02 \ (1.97e-02) - & 1.24e-02 \ (4.08e-03) - & 3.00e-03 \ (1.87e-03) - & 4.58e-03 \ (1.91e-03) - & 4.28e-03 \ (1.06e-03) - \\ \text{CEC19-MaTSO4-T33} & 8.86e-07 \ (6.00e-07) & 6.57e-02 \ (1.05e-01) - & 1.41e-02 \ (4.02e-03) - & 2.50e-03 \ (1.29e-03) - & 1.70e-01 \ (4.80e-02) - & 4.76e-03 \ (1.36e-03) - \\ \text{CEC19-MaTSO4-T35} & 1.40e-06 \ (9.40e-07) & 2.68e-02 \ (5.18e-02) - & 1.38e-02 \ (6.57e-03) - & 2.27e-03 \ (9.87e-04) - & 4.74e-03 \ (1.50e-03) - & 5.17e-03 \ (2.00e-03) - \\ \text{CEC19-MaTSO4-T35} & 1.40e-06 \ (9.40e-07) & 2.68e-02 \ (5.18e-02) - & 1.38e-02 \ (6.07e-03) - & 2.95e-03 \ (2.52e-03) - & 4.61e-03 \ (1.76e-03) - & 5.16e-03 \ (3.14e-03) - \\ \text{CEC19-MaTSO4-T35} & 1.87e-06 \ (1.28e-06) & 4.83e-02 \ (8.04e-02) - & 1.38e-02 \ (6.07e-03) - & 2.95e-03 \ (2.52e-03) - & 4.61e-03 \ (1.76e-03) - & 5.16e-03 \ (3.14e-03) - \\ \text{CEC19-MaTSO4-T37} & 1.37e-06 \ (8.09e-07) & 2.18e-02 \ (5.32e-02) - & 1.07e-02 \ (4.23e-03) - & 2.49e-03 \ (1.76e-03) - & 1.67e-01 \ (4.35e-02) - & 4.07e-03 \ (1.65e-03) - \\ \text{CEC19-MaTSO4-T39} & 3.72e-04 \ (1.65e-03) & 5.24e-02 \ (8.13e-02) - & 1.38e-02 \ (6.07e-03) - & 2.56e-03 \ (1.93e-03) - & 1.67e-01 \ (4.35e-02) - & 4.07e-03 \ (1.65e-03) - \\ \text{CEC19-MaTSO4-T39} & 3.72e-04 \ (1.65e-03) & 5.24e-02 \ (8.13e-02) - & 1.38e-02 \ (6.02e-03) - & 2.56e-03 \ (1.93e-03) - & 1.67e-01 \ (4.00e-02) - & 4.65e-03 \ (1.65e-03) - \\ \text{CEC19-MaTSO4-T49} & 1.34e-06 \ (9.06e-07) & 2.32e-02 \ (8.13e-02) - & 1.49e-02 \ (5.52e-03) - & 2.56$	CEC19-MaTSO4-T27	1.12e-06 (5.67e-07)	6.52e-02 (1.40e-01) -	1.17e-02 (3.46e-03) -	2.45e-03 (1.19e-03) -	1.59e-01 (3.97e-02) -	4.40e-03 (1.46e-03) -
CEC19-MaTSO4-T30 2.31e-06 (1.01e-06) 1.71e-02 (2.22e-02) 1.25e-02 (6.17e-03) 2.48e-03 (8.42e-04) 5.31e-03 (1.86e-03) 5.52e-03 (1.63e-03) CEC19-MaTSO4-T31 1.64e-06 (1.04e-06) 3.31e-02 (4.41e-02) 1.21e-02 (4.15e-03) 2.51e-03 (1.28e-03) 1.51e-01 (3.97e-02) 4.49e-03 (1.49e-03) CEC19-MaTSO4-T32 1.33e-06 (8.60e-07) 1.47e-02 (1.97e-02) 1.24e-02 (4.08e-03) 2.50e-03 (1.29e-03) 1.70e-01 (4.80e-02) 4.76e-03 (1.06e-03) CEC19-MaTSO4-T33 8.86e-07 (6.00e-07) 6.57e-02 (1.05e-01) 1.41e-02 (4.02e-03) 2.50e-03 (1.29e-03) 1.70e-01 (4.80e-02) 4.76e-03 (1.36e-03) CEC19-MaTSO4-T34 1.13e-06 (6.68e-07) 4.00e-02 (9.99e-02) 1.34e-02 (4.95e-03) 2.27e-03 (9.87e-04) 4.74e-03 (1.50e-03) 5.17e-03 (2.00e-03) CEC19-MaTSO4-T35 1.40e-06 (9.40e-07) 2.68e-02 (5.18e-02) 1.38e-02 (6.57e-03) 2.25e-03 (1.29e-03) 1.78e-01 (4.35e-02) 4.49e-03 (1.52e-03) CEC19-MaTSO4-T36 1.87e-06 (1.28e-06) 4.83e-02 (8.04e-02) 1.38e-02 (6.07e-03) 2.95e-03 (2.52e-03) 1.67e-01 (4.35e-02) 4.40e-03 (1.40e-03) CEC19-MaTSO4-T37 1.37e-06 (8.09e-07) 2.18e-02 (5.32e-02) 1.07e-02 (4.23e-03) 2.49e-03 (1.76e-03) 1.67e-01 (4.35e-02) 4.07e-03 (1.46e-03) CEC19-MaTSO4-T38 1.80e-06 (8.71e-07) 2.70e-02 (5.86e-02) 1.38e-02 (6.02e-03) 3.41e-03 (4.66e-03) 1.77e-01 (4.00e-02) 4.65e-03 (1.56e-03) CEC19-MaTSO4-T39 3.72e-04 (1.65e-03) 5.24e-02 (8.13e-02) 1.38e-02 (6.02e-03) 2.50e-03 (1.53e-03) 1.77e-01 (4.00e-02) 4.65e-03 (1.65e-03) CEC19-MaTSO4-T40 1.14e-06 (7.57e-07) 1.84e-02 (2.75e-02) 1.09e-02 (4.61e-03) 2.50e-03 (1.53e-03) 1.77e-01 (4.00e-02) 4.65e-03 (1.67e-03) CEC19-MaTSO4-T41 1.34e-06 (9.06e-07) 2.32e-02 (3.05e-02) 1.33e-02 (5.50e-03) 2.35e-03 (8.90e-04) 1.62e-01 (4.15e-02) 3.86e-03 (1.67e-03) CEC19-MaTSO4-T41 1.96e-06 (1.10e-06) 2.27e-02 (2.54e-02) 1.32e-02 (3.55e-03) 2.35e-03 (6.90e-03) 1.77e-01 (4.00e-02) 4.65e-03 (1.67e-03) CEC19-MaTSO4-T44 1.96e-06 (1.03e-06) 1.10e-06 (2.27e-02) 1.29e-02 (5.52e-03	CEC19-MaTSO4-T28	2.30e-06 (1.20e-06)	2.91e-02 (8.25e-02) -	1.30e-02 (5.47e-03) -	3.60e-03 (4.94e-03) -	4.59e-03 (1.90e-03) -	4.39e-03 (1.79e-03) -
CEC19-MaTSO4-T31	CEC19-MaTSO4-T29	1.77e-06 (1.12e-06)	3.46e-02 (3.43e-02) -	1.38e-02 (6.17e-03) -	2.32e-03 (1.06e-03) -	1.59e-01 (4.02e-02) -	4.68e-03 (1.83e-03) -
CEC19-MaTSO4-T32 1.33e-06 (8.60e-07) 1.47e-02 (1.97e-02) - 1.24e-02 (4.08e-03) - 3.00e-03 (1.87e-03) - 4.58e-03 (1.91e-03) - 4.28e-03 (1.06e-03) - CEC19-MaTSO4-T34 1.13e-06 (6.68e-07) 4.00e-02 (9.99e-02) - 1.34e-02 (4.95e-03) - 2.27e-03 (9.87e-04) - 4.74e-03 (1.50e-03) - 5.17e-03 (2.00e-03) - CEC19-MaTSO4-T35 1.40e-06 (9.40e-07) 2.68e-02 (5.18e-02) - 1.38e-02 (6.57e-03) - 2.63e-03 (2.29e-03) - 1.78e-01 (4.35e-02) - 4.49e-03 (1.50e-03) - CEC19-MaTSO4-T35 1.40e-06 (9.40e-07) 2.68e-02 (5.18e-02) - 1.38e-02 (6.07e-03) - 2.63e-03 (2.29e-03) - 1.78e-01 (4.35e-02) - 4.49e-03 (1.50e-03) - CEC19-MaTSO4-T36 1.87e-06 (1.28e-06) 4.83e-02 (8.04e-02) - 1.38e-02 (6.07e-03) - 2.59e-03 (2.52e-03) - 4.61e-03 (1.76e-03) - 5.16e-03 (3.14e-03) - CEC19-MaTSO4-T36 1.87e-06 (8.09e-07) 2.18e-02 (5.32e-02) - 1.07e-02 (4.23e-03) - 2.49e-03 (1.76e-03) - 1.67e-01 (4.35e-02) - 4.07e-03 (1.46e-03) - CEC19-MaTSO4-T38 1.80e-06 (8.07e-07) 2.70e-02 (5.86e-02) - 1.40e-02 (6.19e-03) - 2.50e-03 (1.99e-03) - 4.17e-03 (1.59e-03) - 4.09e-03 (1.71e-03) - CEC19-MaTSO4-T39 3.72e-04 (1.65e-03) - 5.24e-02 (8.13e-02) - 1.38e-02 (6.02e-03) - 2.56e-03 (1.93e-03) - 4.77e-01 (4.00e-02) - 4.65e-03 (1.65e-03) - CEC19-MaTSO4-T40 1.14e-06 (7.57e-07) 1.84e-02 (2.75e-02) - 1.09e-02 (4.61e-03) - 2.50e-03 (1.53e-03) - 4.77e-01 (4.00e-02) - 4.65e-03 (1.65e-03) - CEC19-MaTSO4-T44 1.34e-06 (9.06e-07) 2.32e-02 (3.05e-02) - 1.45e-02 (5.58e-03) - 2.15e-03 (8.94e-04) - 1.62e-01 (4.15e-02) - 3.86e-03 (1.46e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.09e-06) 4.10e-02 (5.58e-02) - 1.27e-02 (3.35e-03) - 2.37e-03 (9.46e-04) - 1.78e-01 (5.23e-02) - 4.04e-03 (1.16e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.09e-06) 4.10e-02 (5.69e-02) - 1.27e-02 (3.35e-03) - 2.37e-03 (9.46e-04) - 1.78e-01 (5.23e-02) - 4.04e-03 (1.16e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.09e-06) 4.10e-02 (5.69e-02) - 1.25e-02 (3.90e-03) - 2.35e-03 (1.09e-03) -	CEC19-MaTSO4-T30	2.31e-06 (1.01e-06)	1.71e-02 (2.22e-02) -	1.25e-02 (6.17e-03) -	2.48e-03 (8.42e-04) -	5.31e-03 (1.86e-03) -	5.52e-03 (1.63e-03) -
CEC19-MaTSO4-T33 8.86e-07 (6.00e-07) 6.57e-02 (1.05e-01) 1.41e-02 (4.02e-03) 2.50e-03 (1.29e-03) 1.70e-01 (4.80e-02) 4.76e-03 (1.36e-03) CEC19-MaTSO4-T34 1.13e-06 (6.68e-07) 4.00e-02 (9.99e-02) 1.34e-02 (4.95e-03) 2.27e-03 (9.87e-04) 4.74e-03 (1.50e-03) 5.17e-03 (2.00e-03) CEC19-MaTSO4-T35 1.40e-06 (9.40e-07) 2.68e-02 (5.18e-02) 1.38e-02 (6.57e-03) 2.63e-03 (2.29e-03) 1.78e-01 (4.35e-02) 4.49e-03 (1.52e-03) CEC19-MaTSO4-T36 1.87e-06 (1.28e-06) 4.83e-02 (8.04e-02) 1.38e-02 (6.07e-03) 2.95e-03 (2.52e-03) 4.61e-03 (1.76e-03) 5.16e-03 (3.14e-03) CEC19-MaTSO4-T37 1.37e-06 (8.09e-07) 2.18e-02 (5.32e-02) 1.07e-02 (4.23e-03) 2.49e-03 (1.76e-03) 1.67e-01 (4.35e-02) 4.09e-03 (1.16e-03) CEC19-MaTSO4-T38 1.80e-06 (8.71e-07) 2.70e-02 (5.86e-02) 1.40e-02 (6.19e-03) 3.41e-03 (4.66e-03) 4.17e-03 (1.59e-03) 4.09e-03 (1.16e-03) CEC19-MaTSO4-T39 3.72e-04 (1.65e-03) 5.24e-02 (8.13e-02) 1.38e-02 (6.02e-03) 2.56e-03 (1.93e-03) 1.77e-01 (4.00e-02) 4.65e-03 (1.65e-03) CEC19-MaTSO4-T40 1.14e-06 (7.57e-07) 1.84e-02 (2.75e-02)	CEC19-MaTSO4-T31			1.21e-02 (4.15e-03) -	2.51e-03 (1.28e-03) -	1.51e-01 (3.97e-02) -	4.49e-03 (1.49e-03) -
CEC19-MaTSO4-T34 1.13e-06 (6.68e-07) 4.00e-02 (9.99e-02) 1.34e-02 (4.95e-03) 2.27e-03 (9.87e-04) 4.74e-03 (1.50e-03) 5.17e-03 (2.00e-03) CEC19-MaTSO4-T35 1.40e-06 (9.40e-07) 2.68e-02 (5.18e-02) 1.38e-02 (6.57e-03) 2.63e-03 (2.29e-03) 1.78e-01 (4.35e-02) 4.49e-03 (1.52e-03) CEC19-MaTSO4-T36 1.87e-06 (1.28e-06) 4.83e-02 (8.04e-02) 1.38e-02 (6.07e-03) 2.95e-03 (2.52e-03) 4.61e-03 (1.76e-03) 5.16e-03 (3.14e-03) CEC19-MaTSO4-T37 1.37e-06 (8.09e-07) 2.18e-02 (5.32e-02) 1.07e-02 (4.23e-03) 2.49e-03 (1.76e-03) 1.67e-01 (4.35e-02) 4.07e-03 (1.46e-03) CEC19-MaTSO4-T38 1.80e-06 (8.71e-07) 2.70e-02 (5.86e-02) 1.38e-02 (6.02e-03) 2.56e-03 (1.93e-03) 4.07e-03 (1.59e-03) 4.09e-03 (1.71e-03) CEC19-MaTSO4-T39 3.72e-04 (1.65e-03) 5.24e-02 (8.13e-02) 1.38e-02 (6.02e-03) 2.56e-03 (1.93e-03) 1.77e-01 (4.00e-02) 4.65e-03 (1.65e-03) CEC19-MaTSO4-T40 1.14e-06 (7.57e-07) 1.84e-02 (2.75e-02) 1.09e-02 (4.61e-03) 2.50e-03 (1.53e-03) 4.38e-03 (1.59e-03) 4.71e-03 (1.47e-03) CEC19-MaTSO4-T41 1.34e-06 (9.06e-07) 2.32e-02 (3.05e-02) 1.45e-02 (5.58e-03) 2.15e-03 (8.94e-04) 1.62e-01 (4.15e-02) 3.86e-03 (1.67e-03) CEC19-MaTSO4-T43 1.96e-06 (1.10e-06) 2.27e-02 (2.54e-02) 1.27e-02 (3.35e-03) 2.37e-03 (9.46e-04) 4.50e-03 (1.03e-03) 4.90e-03 (1.07e-03) CEC19-MaTSO4-T44 2.08e-06 (1.10e-06) 2.27e-02 (2.54e-02) 1.27e-02 (3.55e-03) 2.33e-03 (9.80e-04) 4.90e-03 (1.71e-03) 4.99e-03 (3.04e-03) CEC19-MaTSO4-T44 2.08e-06 (1.00e-06) 2.27e-02 (2.54e-02) 1.25e-02 (3.90e-03) 2.35e-03 (2.09e-03) 4.12e-03 (1.56e-03) 4.99e-03 (3.03e-03) 4.99e-03	CEC19-MaTSO4-T32	1.33e-06 (8.60e-07)	1.47e-02 (1.97e-02) -	1.24e-02 (4.08e-03) -	3.00e-03 (1.87e-03) -	4.58e-03 (1.91e-03) -	4.28e-03 (1.06e-03) -
CEC19-MaTSO4-T35	CEC19-MaTSO4-T33	8.86e-07 (6.00e-07)	6.57e-02 (1.05e-01) -	1.41e-02 (4.02e-03) -	2.50e-03 (1.29e-03) -	1.70e-01 (4.80e-02) -	4.76e-03 (1.36e-03) -
CEC19-MaTSO4-T36 1.87e-06 (1.28e-06) 4.83e-02 (8.04e-02) - 1.38e-02 (6.07e-03) - 2.95e-03 (2.52e-03) - 4.61e-03 (1.76e-03) - 5.16e-03 (3.14e-03) - CEC19-MaTSO4-T37 1.37e-06 (8.09e-07) 2.18e-02 (5.32e-02) - 1.07e-02 (4.23e-03) - 2.49e-03 (1.76e-03) - 1.67e-01 (4.35e-02) - 4.07e-03 (1.46e-03) - CEC19-MaTSO4-T38 1.80e-06 (8.71e-07) 2.70e-02 (5.86e-02) - 1.40e-02 (6.19e-03) - 3.41e-03 (4.66e-03) - 4.17e-03 (1.59e-03) - 4.09e-03 (1.71e-03) - CEC19-MaTSO4-T39 3.72e-04 (1.65e-03) 5.24e-02 (8.13e-02) - 1.38e-02 (6.02e-03) - 2.56e-03 (1.93e-03) - 1.77e-01 (4.00e-02) - 4.65e-03 (1.55e-03) - CEC19-MaTSO4-T40 1.14e-06 (7.57e-07) 1.84e-02 (2.75e-02) - 1.09e-02 (4.61e-03) - 2.50e-03 (1.53e-03) - 4.38e-03 (1.59e-03) - 4.71e-03 (1.47e-03) - CEC19-MaTSO4-T41 1.34e-06 (9.06e-07) 2.32e-02 (3.05e-02) - 1.45e-02 (5.58e-03) - 2.15e-03 (8.94e-04) - 1.62e-01 (4.15e-02) - 3.86e-03 (1.46e-03) - CEC19-MaTSO4-T42 9.15e-07 (5.59e-07) 3.74e-02 (4.26e-02) - 1.33e-02 (5.00e-03) - 1.97e-03 (6.21e-04) - 4.50e-03 (1.03e-03) - 4.81e-03 (1.57e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.10e-06) 2.27e-02 (2.54e-02) - 1.27e-02 (3.55e-03) - 2.37e-03 (9.46e-04) - 1.78e-01 (5.23e-02) - 4.04e-03 (1.31e-03) - CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) - 1.25e-02 (3.90e-03) - 2.33e-03 (9.80e-04) - 1.77e-01 (3.19e-02) - 5.35e-03 (3.58e-03) - CEC19-MaTSO4-T46 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) - 1.19e-02 (3.27e-03) - 3.22e-03 (2.09e-03) - 1.77e-01 (3.19e-02) - 5.35e-03 (3.58e-03) - CEC19-MaTSO4-T47 2.14e-06 (9.65e-07) 1.42e-02 (1.65e-02) - 1.12e-02 (4.44e-03) - 2.89e-03 (2.32e-03) - 4.12e-03 (1.56e-03) - 5.11e-03 (2.60e-03) - CEC19-MaTSO4-T47 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.10e-02 (6.64e-03) - 2.51e-03 (1.13e-03) - 4.12e-03 (1.56e-03) - 4.41e-03 (1.59e-03) - 4.41e-03 (1.59e-	CEC19-MaTSO4-T34	1.13e-06 (6.68e-07)	4.00e-02 (9.99e-02) -	1.34e-02 (4.95e-03) -	2.27e-03 (9.87e-04) -	4.74e-03 (1.50e-03) -	5.17e-03 (2.00e-03) -
CEC19-MaTSO4-T37 1.37e-06 (8.09e-07) 2.18e-02 (5.32e-02) - 1.07e-02 (4.23e-03) - 2.49e-03 (1.76e-03) - 1.67e-01 (4.35e-02) - 4.07e-03 (1.46e-03) - CEC19-MaTSO4-T38 1.80e-06 (8.71e-07) 2.70e-02 (5.86e-02) - 1.40e-02 (6.19e-03) - 3.41e-03 (4.66e-03) - 4.17e-03 (1.59e-03) - 4.09e-03 (1.71e-03) - CEC19-MaTSO4-T39 3.72e-04 (1.65e-03) 5.24e-02 (8.13e-02) - 1.38e-02 (6.02e-03) - 2.56e-03 (1.93e-03) - 1.77e-01 (4.00e-02) - 4.65e-03 (1.55e-03) - CEC19-MaTSO4-T40 1.14e-06 (7.57e-07) 1.84e-02 (2.75e-02) - 1.09e-02 (4.61e-03) - 2.50e-03 (1.53e-03) - 4.38e-03 (1.59e-03) - 4.71e-03 (1.47e-03) - CEC19-MaTSO4-T41 1.34e-06 (9.06e-07) 2.32e-02 (3.05e-02) - 1.45e-02 (5.58e-03) - 2.15e-03 (8.94e-04) - 1.62e-01 (4.15e-02) - 3.86e-03 (1.46e-03) - CEC19-MaTSO4-T42 9.15e-07 (5.59e-07) 3.74e-02 (4.26e-02) - 1.32e-02 (5.00e-03) - 1.97e-03 (6.21e-04) - 4.50e-03 (1.03e-03) - 4.04e-03 (1.67e-03) - CEC19-MaTSO4-T43 1.96e-06 (1.10e-06) 2.27e-02 (2.54e-02) - 1.27e-02 (3.35e-03) - 2.37e-03 (9.46e-04) - 1.78e-01 (5.23e-02) - 4.04e-03 (1.31e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.03e-06) 4.10e-02 (7.60e-02) - 1.29e-02 (5.52e-03) - 2.33e-03 (9.80e-04) - 4.90e-03 (1.71e-03) - 4.99e-03 (3.04e-03) - CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) - 1.25e-02 (3.90e-03) - 2.53e-03 (1.69e-03) - 1.77e-01 (3.19e-02) - 5.35e-03 (3.58e-03) - CEC19-MaTSO4-T46 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) - 1.12e-02 (4.44e-03) - 2.89e-03 (2.32e-03) - 1.64e-01 (3.29e-02) - 4.16e-03 (1.39e-03) - CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.24e-02 (2.68e-02) - 1.12e-02 (6.46e-03) - 2.71e-03 (1.13e-03) - 4.60e-01 (3.67e-02) - 4.68e-03 (1.39e-03) - CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.00e-02 (2.36e-02) - 1.12e-02 (6.46e-03) - 2.71e-03 (1.13e-03) - 4.60e-01 (3.67e-02) - 4.68e-03 (1.58e-03) - CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.16e-02 (2.42e-03) - 2.49e-03 (1.03e-03) -	CEC19-MaTSO4-T35	1.40e-06 (9.40e-07)	2.68e-02 (5.18e-02) -	1.38e-02 (6.57e-03) -	2.63e-03 (2.29e-03) -	1.78e-01 (4.35e-02) -	4.49e-03 (1.52e-03) -
CEC19-MaTSO4-T38 1.80e-06 (8.71e-07) 2.70e-02 (5.86e-02) - 1.40e-02 (6.19e-03) - 3.41e-03 (4.66e-03) - 4.17e-03 (1.59e-05) - 4.09e-03 (1.71e-03) - CEC19-MaTSO4-T39 3.72e-04 (1.65e-03) 5.24e-02 (8.13e-02) - 1.38e-02 (6.02e-03) - 2.56e-03 (1.93e-03) - 1.77e-01 (4.00e-02) - 4.65e-03 (1.55e-03) - CEC19-MaTSO4-T40 1.14e-06 (7.57e-07) 1.84e-02 (2.75e-02) - 1.09e-02 (4.61e-03) - 2.50e-03 (1.53e-03) - 4.38e-03 (1.59e-03) - 4.71e-03 (1.47e-03) - CEC19-MaTSO4-T41 1.34e-06 (9.06e-07) 2.32e-02 (3.05e-02) - 1.45e-02 (5.58e-03) - 2.15e-03 (8.94e-04) - 1.62e-01 (4.15e-02) - 3.86e-03 (1.46e-03) - CEC19-MaTSO4-T42 9.15e-07 (5.59e-07) 3.74e-02 (4.26e-02) - 1.33e-02 (5.00e-03) - 1.97e-03 (6.21e-04) - 4.50e-03 (1.03e-03) - 4.81e-03 (1.67e-03) - CEC19-MaTSO4-T43 1.96e-06 (1.10e-06) 2.27e-02 (2.54e-02) - 1.27e-02 (3.35e-03) - 2.37e-03 (9.46e-04) - 1.78e-01 (5.23e-02) - 4.04e-03 (1.31e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.03e-06) 4.10e-02 (7.60e-02) - 1.29e-02 (5.52e-03) - 2.33e-03 (9.80e-04) - 4.90e-03 (1.71e-03) - 4.99e-03 (3.04e-03) - CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) - 1.25e-02 (3.90e-03) - 2.53e-03 (1.69e-03) - 1.77e-01 (3.19e-02) - 5.35e-03 (3.58e-03) - CEC19-MaTSO4-T46 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) - 1.19e-02 (3.27e-03) - 3.22e-03 (2.09e-03) - 1.64e-01 (3.29e-02) - 4.16e-03 (1.39e-03) - CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.00e-02 (2.36e-02) - 1.12e-02 (6.46e-03) - 2.89e-03 (2.32e-03) - 1.64e-01 (3.29e-02) - 4.16e-03 (1.39e-03) - CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.16e-02 (4.42e-03) - 2.51e-03 (1.13e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) - CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) - CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) -	CEC19-MaTSO4-T36	1.87e-06 (1.28e-06)	4.83e-02 (8.04e-02) -	1.38e-02 (6.07e-03) -	2.95e-03 (2.52e-03) -	4.61e-03 (1.76e-03) -	5.16e-03 (3.14e-03) -
CEC19-MaTSO4-T39 3.72e-04 (1.65e-03) 5.24e-02 (8.13e-02) - 1.38e-02 (6.02e-03) - 2.56e-03 (1.93e-03) - 1.77e-01 (4.00e-02) - 4.65e-03 (1.65e-03) - CEC19-MaTSO4-T40 1.14e-06 (7.57e-07) 1.84e-02 (2.75e-02) - 1.09e-02 (4.61e-03) - 2.50e-03 (1.53e-03) - 4.38e-03 (1.59e-03) - 4.71e-03 (1.47e-03) - CEC19-MaTSO4-T41 1.34e-06 (9.06e-07) 2.32e-02 (3.05e-02) - 1.45e-02 (5.58e-03) - 2.15e-03 (8.94e-04) - 1.62e-01 (4.15e-02) - 3.86e-03 (1.46e-03) - CEC19-MaTSO4-T42 9.15e-07 (5.59e-07) 3.74e-02 (4.26e-02) - 1.33e-02 (5.00e-03) - 1.97e-03 (6.21e-04) - 4.50e-03 (1.03e-03) - 4.81e-03 (1.67e-03) - CEC19-MaTSO4-T43 1.96e-06 (1.10e-06) 2.27e-02 (2.54e-02) - 1.27e-02 (3.55e-03) - 2.37e-03 (9.46e-04) - 1.78e-01 (5.23e-02) - 4.04e-03 (1.31e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.03e-06) 4.10e-02 (7.60e-02) - 1.29e-02 (5.52e-03) - 2.33e-03 (9.80e-04) - 4.90e-03 (1.71e-03) - 4.99e-03 (3.04e-03) - CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) - 1.25e-02 (3.90e-03) - 2.53e-03 (1.69e-03) - 1.77e-01 (3.19e-02) - 5.35e-03 (3.58e-03) - CEC19-MaTSO4-T46 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) - 1.19e-02 (3.27e-03) - 3.22e-03 (2.09e-03) - 4.12e-03 (1.56e-03) - 5.11e-03 (2.60e-03) - CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.20e-02 (2.68e-02) - 1.12e-02 (4.44e-03) - 2.89e-03 (2.32e-03) - 1.64e-01 (3.29e-02) - 4.16e-03 (1.39e-03) - CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.50e-02 (6.46e-03) - 2.71e-03 (1.13e-03) - 5.31e-03 (1.69e-03) - 5.44e-03 (2.81e-03) - CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) - CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) 3.95e-02 (5.38e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) - CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) 3.95e-02 (5.58e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) - CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) 3.95e-02 (5.38e-02) - 1.16e-02 (4.22e-03	CEC19-MaTSO4-T37	1.37e-06 (8.09e-07)	2.18e-02 (5.32e-02) -	1.07e-02 (4.23e-03) -	2.49e-03 (1.76e-03) -	1.67e-01 (4.35e-02) -	4.07e-03 (1.46e-03) -
CEC19-MaTSO4-T40 1.14e-06 (7.57e-07) 1.84e-02 (2.75e-02) - 1.09e-02 (4.61e-03) - 2.50e-03 (1.53e-03) - 4.38e-03 (1.59e-03) - 4.71e-03 (1.47e-03) - CEC19-MaTSO4-T41 1.34e-06 (9.06e-07) 2.32e-02 (3.05e-02) - 1.45e-02 (5.58e-03) - 2.15e-03 (8.94e-04) - 1.62e-01 (4.15e-02) - 3.86e-03 (1.46e-03) - CEC19-MaTSO4-T42 9.15e-07 (5.59e-07) 3.74e-02 (4.26e-02) - 1.33e-02 (5.00e-03) - 1.97e-03 (6.21e-04) - 4.50e-03 (1.03e-03) - 4.81e-03 (1.67e-03) - CEC19-MaTSO4-T43 1.96e-06 (1.10e-06) (1.10e-06) (2.27e-02 (2.54e-02) - 1.27e-02 (3.35e-03) - 2.37e-03 (9.46e-04) - 1.78e-01 (5.23e-02) - 4.04e-03 (1.31e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.03e-06) (4.10e-02 (7.60e-02) - 1.29e-02 (5.52e-03) - 2.33e-03 (9.80e-04) - 4.90e-03 (1.71e-03) - 4.90e-03 (3.04e-03) - CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) - 1.25e-02 (3.90e-03) - 2.53e-03 (1.69e-03) - 1.77e-01 (3.19e-02) - 5.35e-03 (3.58e-03) - CEC19-MaTSO4-T46 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) - 1.19e-02 (3.27e-03) - 3.22e-03 (2.09e-03) - 4.12e-03 (1.56e-03) - 5.11e-03 (2.60e-03) - CEC19-MaTSO4-T47 1.01e-06 (9.65e-07) 1.42e-02 (1.65e-02) -	CEC19-MaTSO4-T38	1.80e-06 (8.71e-07)	2.70e-02 (5.86e-02) -	1.40e-02 (6.19e-03) -	3.41e-03 (4.66e-03) -	4.17e-03 (1.59e-03) -	4.09e-03 (1.71e-03) -
CEC19-MaTSO4-T41 1.34e-06 (9.06e-07) 2.32e-02 (3.05e-02) 1.45e-02 (5.58e-03) 2.15e-03 (8.94e-04) 1.62e-01 (4.15e-02) 3.86e-03 (1.46e-03) CEC19-MaTSO4-T42 9.15e-07 (5.59e-07) 3.74e-02 (4.26e-02) 1.33e-02 (5.00e-03) 1.97e-03 (6.21e-04) 4.50e-03 (1.03e-03) 4.81e-03 (1.67e-03) CEC19-MaTSO4-T43 1.96e-06 (1.10e-06) 2.27e-02 (2.54e-02) 1.27e-02 (3.35e-03) 2.37e-03 (9.46e-04) 1.78e-01 (5.23e-02) 4.04e-03 (1.31e-03) CEC19-MaTSO4-T44 2.08e-06 (1.03e-06) 4.10e-02 (7.60e-02) 1.29e-02 (5.52e-03) 2.33e-03 (9.80e-04) 4.90e-03 (1.71e-03) 4.99e-03 (3.04e-03) CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) 1.25e-02 (3.90e-03) 2.53e-03 (1.69e-03) 1.77e-01 (3.19e-02) 5.35e-03 (3.58e-03) CEC19-MaTSO4-T45 1.01e-06 (9.65e-07) 1.25e-02 (4.68e-02) 1.19e-02 (3.27e-03) 3.22e-03 (2.09e-03) 4.12e-03 (1.56e-03) 5.11e-03 (2.60e-03) CEC19-MaTSO4-T47 1.01e-06 (9.65e-07) 1.42e-02 (1.65e-02) 1.19e-02 (3.27e-03) 3.22e-03 (2.09e-03) 4.12e-03 (1.56e-03) 5.11e-03 (2.60e-03) CEC19-MaTSO4-T47 1.01e-06 (9.65e-07) 1.42e-02 (1.65e-02)	CEC19-MaTSO4-T39	3.72e-04 (1.65e-03)	5.24e-02 (8.13e-02) -	1.38e-02 (6.02e-03) -	2.56e-03 (1.93e-03) -	1.77e-01 (4.00e-02) -	4.65e-03 (1.65e-03) -
CEC19-MaTSO4-T42 9.15e-07 (5.59e-07) 3.74e-02 (4.26e-02) - 1.33e-02 (5.00e-03) - 1.97e-03 (6.21e-04) - 4.50e-03 (1.03e-03) - 4.81e-03 (1.67e-03) - CEC19-MaTSO4-T43 1.96e-06 (1.10e-06) 2.27e-02 (2.54e-02) - 1.27e-02 (3.35e-03) - 2.37e-03 (9.46e-04) - 1.78e-01 (5.23e-02) - 4.04e-03 (1.31e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.03e-06) 4.10e-02 (7.60e-02) - 1.29e-02 (5.52e-03) - 2.33e-03 (9.80e-04) - 4.90e-03 (1.71e-03) - 4.99e-03 (3.04e-03) - CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) - 1.25e-02 (3.90e-03) - 2.53e-03 (1.69e-03) - 1.77e-01 (3.19e-02) - 5.35e-03 (3.58e-03) - CEC19-MaTSO4-T45 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) - 1.19e-02 (3.27e-03) - 3.22e-03 (2.09e-03) - 4.12e-03 (1.56e-03) - 5.11e-03 (2.60e-03) - CEC19-MaTSO4-T47 1.01e-06 (9.65e-07) 1.42e-02 (1.65e-02) - 1.12e-02 (4.44e-03) - 2.89e-03 (2.32e-03) - 1.64e-01 (3.29e-02) - 4.16e-03 (1.39e-03) - CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.00e-02 (2.36e-02) - 1.50e-02 (6.66e-03) - 2.71e-03 (1.40e-03) - 5.31e-03 (1.69e-03) - 5.44e-03 (2.81e-03) - CEC19-MaTSO4-T49	CEC19-MaTSO4-T40	1.14e-06 (7.57e-07)		1.09e-02 (4.61e-03) -	2.50e-03 (1.53e-03) -	4.38e-03 (1.59e-03) -	4.71e-03 (1.47e-03) -
CEC19-MaTSO4-T43 1.96e-06 (1.10e-06) 2.27e-02 (2.54e-02) 1.27e-02 (3.35e-03) 2.37e-03 (9.46e-04) 1.78e-01 (5.23e-02) 4.04e-03 (1.31e-03) - CEC19-MaTSO4-T44 2.08e-06 (1.03e-06) 4.10e-02 (7.60e-02) 1.29e-02 (5.52e-03) 2.33e-03 (9.80e-04) 4.90e-03 (1.71e-03) 4.99e-03 (3.04e-03) CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) 1.25e-02 (3.90e-03) 2.53e-03 (1.69e-03) 1.77e-01 (3.19e-02) 5.35e-03 (3.58e-03) CEC19-MaTSO4-T46 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) 1.19e-02 (3.27e-03) 3.22e-03 (2.09e-03) 4.12e-03 (1.5e-03) 5.11e-03 (2.60e-03) CEC19-MaTSO4-T47 1.01e-06 (9.65e-07) 1.42e-02 (1.65e-02) 1.12e-02 (4.44e-03) 2.89e-03 (2.32e-03) 1.64e-01 (3.29e-02) 4.16e-03 (1.39e-03) CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.00e-02 (2.36e-02) 1.50e-02 (6.46e-03) 2.71e-03 (1.40e-03) 5.31e-03 (1.69e-03) 5.44e-03 (2.81e-03) CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) 1.40e-02 (5.40e-03) 2.51e-03 (1.13e-03) 1.66e-01 (3.67e-02) 4.48e-03 (2.81e-03) 4.72e-03 (2.51e-03) 4.41e-03 (1.84e-03) CEC19-	CEC19-MaTSO4-T41	1.34e-06 (9.06e-07)	2.32e-02 (3.05e-02) -	1.45e-02 (5.58e-03) -	2.15e-03 (8.94e-04) -	1.62e-01 (4.15e-02) -	3.86e-03 (1.46e-03) -
CEC19-MaTSO4-T44 2.08e-06 (1.03e-06) 4.10e-02 (7.60e-02) - 1.29e-02 (5.52e-03) - 2.33e-03 (9.80e-04) - 4.90e-03 (1.71e-03) - 4.99e-03 (3.04e-03) - CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) - 1.25e-02 (3.90e-03) - 2.53e-03 (1.69e-03) - 1.77e-01 (3.19e-02) - 5.35e-03 (3.58e-03) - CEC19-MaTSO4-T46 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) - 1.19e-02 (3.27e-03) - 3.22e-03 (2.09e-03) - 4.12e-03 (1.56e-03) - 5.11e-03 (2.60e-03) - CEC19-MaTSO4-T47 1.01e-06 (9.65e-07) 1.42e-02 (1.65e-02) - 1.12e-02 (4.44e-03) - 2.89e-03 (2.32e-03) - 1.64e-01 (3.29e-02) - 4.16e-03 (1.39e-03) - CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.00e-02 (2.36e-02) - 1.50e-02 (6.46e-03) - 2.71e-03 (1.40e-03) - 5.31e-03 (1.69e-03) - 5.44e-03 (2.81e-03) - CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) - 2.24e-02 (2.68e-02) - 1.40e-02 (5.40e-03) - 2.51e-03 (1.13e-03) - 1.66e-01 (3.67e-02) - 4.60e-03 (1.58e-03) - CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) - 3.95e-02 (5.38e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) -	CEC19-MaTSO4-T42	9.15e-07 (5.59e-07)	3.74e-02 (4.26e-02) -	1.33e-02 (5.00e-03) -	1.97e-03 (6.21e-04) -	4.50e-03 (1.03e-03) -	4.81e-03 (1.67e-03) -
CEC19-MaTSO4-T45 1.34e-06 (8.50e-07) 1.50e-02 (2.78e-02) 1.25e-02 (3.90e-03) 2.53e-03 (1.69e-03) 1.77e-01 (3.19e-02) 5.35e-03 (3.58e-03) 5.35e-03 (3.58e-03) CEC19-MaTSO4-T46 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) 1.19e-02 (3.27e-03) 3.22e-03 (2.09e-03) 4.12e-03 (1.56e-03) 5.11e-03 (2.60e-03) CEC19-MaTSO4-T47 1.01e-06 (9.65e-07) 1.42e-02 (1.65e-02) 1.12e-02 (4.44e-03) 2.89e-03 (2.32e-03) 1.64e-01 (3.29e-02) 4.16e-03 (1.39e-03) CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.00e-02 (2.36e-02) 1.50e-02 (6.46e-03) 2.71e-03 (1.40e-03) 5.31e-03 (1.69e-03) 5.44e-03 (2.81e-03) CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) 1.40e-02 (5.40e-03) 2.51e-03 (1.13e-03) 1.66e-01 (3.67e-02) 4.68e-03 (1.54e-03) CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) 3.95e-02 (5.38e-02) 1.16e-02 (4.22e-03) 2.49e-03 (1.03e-03) 4.72e-03 (2.51e-03) 4.41e-03 (1.84e-03)	CEC19-MaTSO4-T43	1.96e-06 (1.10e-06)	2.27e-02 (2.54e-02) -	1.27e-02 (3.35e-03) -	2.37e-03 (9.46e-04) -	1.78e-01 (5.23e-02) -	4.04e-03 (1.31e-03) -
CEC19-MaTSO4-T46 2.02e-06 (1.34e-06) 2.78e-02 (4.68e-02) 1.19e-02 (3.27e-03) 3.22e-03 (2.09e-03) 4.12e-03 (1.56e-03) 5.11e-03 (2.60e-03) CEC19-MaTSO4-T47 1.01e-06 (9.65e-07) 1.42e-02 (1.65e-02) 1.12e-02 (4.44e-03) 2.89e-03 (2.32e-03) 1.64e-01 (3.29e-02) 4.16e-03 (1.39e-03) CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.00e-02 (2.36e-02) 1.50e-02 (6.46e-03) 2.71e-03 (1.40e-03) 5.31e-03 (1.69e-03) 5.44e-03 (2.81e-03) CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) 1.40e-02 (5.40e-03) 2.51e-03 (1.13e-03) 1.66e-01 (3.67e-02) 4.68e-03 (1.54e-03) CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) 3.95e-02 (5.38e-02) 1.16e-02 (4.22e-03) 2.49e-03 (1.03e-03) 4.72e-03 (2.51e-03) 4.41e-03 (1.84e-03)	CEC19-MaTSO4-T44	2.08e-06 (1.03e-06)	4.10e-02 (7.60e-02) -	1.29e-02 (5.52e-03) -	2.33e-03 (9.80e-04) -	4.90e-03 (1.71e-03) -	4.99e-03 (3.04e-03) -
CEC19-MaTSO4-T47 1.01e-06 (9.65e-07) 1.42e-02 (1.65e-02) - 1.12e-02 (4.44e-03) - 2.89e-03 (2.32e-03) - 1.64e-01 (3.29e-02) - 4.16e-03 (1.39e-03) - CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.00e-02 (2.36e-02) - 1.50e-02 (6.46e-03) - 2.71e-03 (1.40e-03) - 5.31e-03 (1.69e-03) - 5.44e-03 (2.81e-03) - CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.40e-02 (5.40e-03) - 2.51e-03 (1.13e-03) - 1.66e-01 (3.67e-02) - 4.68e-03 (1.54e-03) - CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) 3.95e-02 (5.38e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) -	CEC19-MaTSO4-T45	1.34e-06 (8.50e-07)	1.50e-02 (2.78e-02) -		2.53e-03 (1.69e-03) -	1.77e-01 (3.19e-02) -	5.35e-03 (3.58e-03) -
CEC19-MaTSO4-T48 2.70e-06 (1.48e-06) 2.00e-02 (2.36e-02) - 1.50e-02 (6.46e-03) - 2.71e-03 (1.40e-03) - 5.31e-03 (1.69e-03) - 5.44e-03 (2.81e-03) - CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.40e-02 (5.40e-03) - 2.51e-03 (1.13e-03) - 1.66e-01 (3.67e-02) - 4.68e-03 (1.54e-03) - CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) 3.95e-02 (5.38e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) -	CEC19-MaTSO4-T46	2.02e-06 (1.34e-06)	2.78e-02 (4.68e-02) -	1.19e-02 (3.27e-03) -	3.22e-03 (2.09e-03) -	4.12e-03 (1.56e-03) -	5.11e-03 (2.60e-03) -
CEC19-MaTSO4-T49 2.14e-06 (1.56e-06) 2.24e-02 (2.68e-02) - 1.40e-02 (5.40e-03) - 2.51e-03 (1.13e-03) - 1.66e-01 (3.67e-02) - 4.68e-03 (1.54e-03) - CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) 3.95e-02 (5.38e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) -			,				
CEC19-MaTSO4-T50 3.71e-04 (1.65e-03) 3.95e-02 (5.38e-02) - 1.16e-02 (4.22e-03) - 2.49e-03 (1.03e-03) - 4.72e-03 (2.51e-03) - 4.41e-03 (1.84e-03) -							
				1.40e-02 (5.40e-03) -	2.51e-03 (1.13e-03) -	1.66e-01 (3.67e-02) -	4.68e-03 (1.54e-03) -
+/-/= Base 0/50/0 0/50/0 0/50/0 0/50/0 0/50/0 0/50/0				` /	` /	` /	` /
	+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0

TABLE S10

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO5 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO5 IN TEST SUITE 3.

Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
CEC19-MaTSO5-T1 CEC19-MaTSO5-T2	8.08e-02 (2.17e-01)	1.05e+00 (8.70e-01) -	2.14e+00 (3.65e-01) -	5.20e-01 (1.30e-01) -	1.33e+00 (1.83e-01) -	1.37e+00 (1.84e-01) -
CEC19-MaTSO5-T2	4.48e-02 (7.75e-03) 3.65e-02 (1.16e-02)	1.21e+00 (6.65e-01) - 1.05e+00 (5.06e-01) -	2.05e+00 (2.67e-01) - 2.13e+00 (3.22e-01) -	1.16e+00 (2.19e-01) - 1.13e+00 (2.08e-01) -	1.27e+00 (1.95e-01) - 1.42e+00 (1.54e-01) -	1.33e+00 (2.36e-01) - 1.49e+00 (2.61e-01) -
CEC19-MaTSO5-T4	2.51e-02 (9.27e-03)	1.04e+00 (5.74e-01) -	2.13e+00 (3.22e-01) - 2.13e+00 (2.51e-01) -	1.17e+00 (2.08e-01) -	1.37e+00 (1.34e-01) -	1.32e+00 (2.74e-01) -
CEC19-MaTSO5-T5	3.82e-02 (9.27e-03)	1.13e+00 (5.73e-01) -	2.15e+00 (2.31e-01) -	1.17e+00 (3.93e-01) -	1.34e+00 (2.77e-01) -	
						1.42e+00 (2.48e-01) -
CEC19-MaTSO5-T6	4.20e-02 (1.30e-02)	1.31e+00 (6.31e-01) -	2.24e+00 (3.30e-01) -	1.11e+00 (1.72e-01) -	1.27e+00 (1.92e-01) -	1.45e+00 (2.90e-01) -
CEC19-MaTSO5-T7	6.05e-02 (1.17e-01)	1.10e+00 (5.73e-01) -	2.14e+00 (5.18e-01) -	1.21e+00 (2.98e-01) -	1.38e+00 (2.08e-01) -	1.27e+00 (2.40e-01) -
CEC19-MaTSO5-T8 CEC19-MaTSO5-T9	1.16e-01 (2.21e-01) 5.47e-02 (1.99e-02)	1.55e+00 (1.04e+00) - 1.25e+00 (5.91e-01) -	2.16e+00 (3.71e-01) - 2.09e+00 (2.83e-01) -	1.25e+00 (2.53e-01) - 1.28e+00 (3.44e-01) -	1.31e+00 (2.05e-01) - 1.34e+00 (1.59e-01) -	1.33e+00 (2.42e-01) - 1.38e+00 (2.45e-01) -
CEC19-MaTSO5-T9	3.23e-02 (1.99e-02)	1.47e+00 (8.64e-01) -	2.09e+00 (2.83e-01) - 2.05e+00 (3.01e-01) -	1.28e+00 (3.44e-01) -	1.34e+00 (1.39e-01) -	1.38e+00 (2.45e-01) -
CEC19-MaTSO5-T10	1.35e-01 (2.78e-01)	1.47e+00 (8.64e-01) - 1.12e+00 (9.08e-01) -	2.05e+00 (3.01e-01) - 2.21e+00 (3.42e-01) -	1.14e+00 (2.54e-01) -	1.30e+00 (2.34e-01) -	1.36e+00 (2.65e-01) -
	` /	,	, ,	,	. ,	, ,
CEC19-MaTSO5-T12	8.16e-02 (1.97e-01)	1.45e+00 (1.04e+00) -	2.10e+00 (3.44e-01) -	1.18e+00 (1.87e-01) -	1.40e+00 (3.07e-01) -	1.39e+00 (2.07e-01) -
CEC19-MaTSO5-T13	4.58e-02 (1.55e-02)	1.29e+00 (5.48e-01) -	2.22e+00 (3.33e-01) -	1.27e+00 (2.83e-01) -	1.39e+00 (1.72e-01) -	1.35e+00 (2.43e-01) -
CEC19-MaTSO5-T14	8.14e-02 (1.99e-01)	1.42e+00 (8.66e-01) -	2.08e+00 (3.65e-01) -	1.19e+00 (2.68e-01) -	1.33e+00 (2.16e-01) -	1.30e+00 (2.24e-01) -
CEC19-MaTSO5-T15	3.98e-02 (1.80e-02)	9.87e-01 (6.59e-01) -	2.12e+00 (4.18e-01) -	1.23e+00 (2.34e-01) -	1.33e+00 (1.76e-01) -	1.28e+00 (1.96e-01) -
CEC19-MaTSO5-T16	3.36e-02 (1.33e-02)	9.73e-01 (7.36e-01) -	2.11e+00 (3.51e-01) -	1.22e+00 (2.13e-01) -	1.35e+00 (2.72e-01) -	1.32e+00 (1.73e-01) -
CEC19-MaTSO5-T17	8.95e-02 (1.97e-01)	1.12e+00 (6.30e-01) -	2.13e+00 (3.11e-01) -	1.36e+00 (3.63e-01) -	1.39e+00 (1.36e-01) -	1.32e+00 (2.08e-01) -
CEC19-MaTSO5-T18	3.61e-02 (1.51e-02)	1.05e+00 (4.53e-01) -	2.14e+00 (3.17e-01) -	1.19e+00 (3.38e-01) -	1.27e+00 (1.70e-01) -	1.29e+00 (2.10e-01) -
CEC19-MaTSO5-T19	3.57e-02 (1.19e-02)	9.61e-01 (6.22e-01) -	2.00e+00 (2.69e-01) -	1.11e+00 (2.70e-01) -	1.36e+00 (1.54e-01) -	1.33e+00 (2.20e-01) -
CEC19-MaTSO5-T20	4.12e-02 (1.59e-02)	1.22e+00 (6.55e-01) -	2.12e+00 (2.60e-01) -	1.08e+00 (3.83e-01) -	1.38e+00 (2.56e-01) -	1.40e+00 (2.47e-01) -
CEC19-MaTSO5-T21	4.66e-02 (1.49e-02)	1.22e+00 (6.23e-01) -	2.19e+00 (3.63e-01) -	1.16e+00 (2.54e-01) -	1.35e+00 (1.58e-01) -	1.37e+00 (1.97e-01) -
CEC19-MaTSO5-T22	3.60e-02 (1.13e-02)	1.12e+00 (7.43e-01) -	2.21e+00 (2.99e-01) -	1.20e+00 (2.61e-01) -	1.25e+00 (2.11e-01) -	1.27e+00 (1.74e-01) -
CEC19-MaTSO5-T23	4.39e-02 (1.69e-02)	1.28e+00 (5.56e-01) -	2.22e+00 (3.93e-01) -	1.28e+00 (4.85e-01) -	1.30e+00 (2.13e-01) -	1.23e+00 (2.40e-01) -
CEC19-MaTSO5-T24	3.24e-02 (7.96e-03)	1.23e+00 (5.25e-01) -	2.13e+00 (2.88e-01) -	1.10e+00 (2.67e-01) -	1.33e+00 (2.97e-01) -	1.28e+00 (2.91e-01) -
CEC19-MaTSO5-T25	4.25e-02 (1.05e-02)	1.06e+00 (5.52e-01) -	2.05e+00 (2.96e-01) -	1.10e+00 (2.44e-01) -	1.31e+00 (1.56e-01) -	1.34e+00 (2.31e-01) -
CEC19-MaTSO5-T26	4.32e-02 (1.28e-02)	1.54e+00 (9.52e-01) -	2.04e+00 (3.07e-01) -	1.18e+00 (2.81e-01) -	1.39e+00 (2.38e-01) -	1.27e+00 (1.98e-01) -
CEC19-MaTSO5-T27	1.12e-01 (2.21e-01)	1.19e+00 (5.40e-01) -	2.14e+00 (2.45e-01) -	1.35e+00 (4.32e-01) -	1.33e+00 (1.74e-01) -	1.39e+00 (1.87e-01) -
CEC19-MaTSO5-T28	4.21e-02 (1.19e-02)	1.03e+00 (5.92e-01) -	2.18e+00 (2.98e-01) -	1.22e+00 (2.60e-01) -	1.27e+00 (2.27e-01) -	1.31e+00 (2.98e-01) -
CEC19-MaTSO5-T29	1.42e-01 (3.08e-01)	1.11e+00 (6.33e-01) -	2.12e+00 (3.37e-01) -	1.20e+00 (2.68e-01) -	1.37e+00 (1.65e-01) -	1.31e+00 (1.96e-01) -
CEC19-MaTSO5-T30	3.84e-02 (1.37e-02)	1.31e+00 (7.32e-01) -	2.13e+00 (3.72e-01) -	1.26e+00 (3.26e-01) -	1.36e+00 (2.33e-01) -	1.33e+00 (2.28e-01) -
CEC19-MaTSO5-T31	8.53e-02 (2.17e-01)	1.25e+00 (7.55e-01) -	2.07e+00 (3.15e-01) -	1.23e+00 (2.84e-01) -	1.34e+00 (1.37e-01) -	1.42e+00 (2.49e-01) -
CEC19-MaTSO5-T32	5.12e-02 (1.60e-02)	1.24e+00 (7.06e-01) -	2.16e+00 (2.49e-01) -	1.27e+00 (4.29e-01) -	1.34e+00 (1.82e-01) -	1.30e+00 (2.83e-01) -
CEC19-MaTSO5-T33	3.78e-02 (1.51e-02)	1.20e+00 (7.04e-01) -	2.23e+00 (6.30e-01) -	1.11e+00 (3.42e-01) -	1.32e+00 (2.07e-01) -	1.29e+00 (1.13e-01) -
CEC19-MaTSO5-T34	4.74e-02 (1.79e-02)	1.35e+00 (9.44e-01) -	2.05e+00 (3.41e-01) -	1.14e+00 (2.42e-01) -	1.37e+00 (2.90e-01) -	1.34e+00 (2.35e-01) -
CEC19-MaTSO5-T35	4.44e-02 (1.38e-02)	1.28e+00 (7.72e-01) -	2.26e+00 (2.82e-01) -	1.26e+00 (3.08e-01) -	1.35e+00 (1.02e-01) -	1.26e+00 (2.24e-01) -
CEC19-MaTSO5-T36	1.25e-01 (2.75e-01)	1.27e+00 (7.43e-01) -	2.18e+00 (3.24e-01) -	1.19e+00 (2.72e-01) -	1.36e+00 (1.90e-01) -	1.32e+00 (2.41e-01) -
CEC19-MaTSO5-T37	4.20e-02 (1.42e-02)	1.22e+00 (5.37e-01) -	2.21e+00 (4.25e-01) -	1.14e+00 (3.42e-01) -	1.36e+00 (1.55e-01) -	1.29e+00 (2.09e-01) -
CEC19-MaTSO5-T38	2.61e-02 (9.22e-03)	1.36e+00 (8.99e-01) -	2.06e+00 (3.29e-01) -	1.28e+00 (3.51e-01) -	1.23e+00 (1.94e-01) -	1.34e+00 (2.68e-01) -
CEC19-MaTSO5-T39	8.27e-02 (1.95e-01)	1.25e+00 (5.73e-01) -	2.16e+00 (2.68e-01) -	1.15e+00 (2.35e-01) -	1.29e+00 (1.48e-01) -	1.31e+00 (2.41e-01) -
CEC19-MaTSO5-T40	3.39e-02 (9.53e-03)	1.23e+00 (6.21e-01) -	2.12e+00 (3.15e-01) -	1.25e+00 (2.54e-01) -	1.32e+00 (1.97e-01) -	1.42e+00 (2.51e-01) -
CEC19-MaTSO5-T41	9.97e-02 (2.18e-01)	1.20e+00 (6.53e-01) -	2.15e+00 (2.40e-01) -	1.26e+00 (2.93e-01) -	1.33e+00 (1.54e-01) -	1.33e+00 (2.55e-01) -
CEC19-MaTSO5-T42	9.08e-02 (2.03e-01)	1.15e+00 (7.80e-01) -	2.00e+00 (3.47e-01) -	1.15e+00 (2.20e-01) -	1.29e+00 (2.28e-01) -	1.32e+00 (2.50e-01) -
CEC19-MaTSO5-T43	2.95e-02 (9.62e-03)	1.31e+00 (8.74e-01) -	2.12e+00 (3.82e-01) -	1.28e+00 (2.99e-01) -	1.32e+00 (1.96e-01) -	1.33e+00 (2.71e-01) -
CEC19-MaTSO5-T44	4.54e-02 (1.37e-02)	1.33e+00 (7.18e-01) -	2.20e+00 (4.74e-01) -	1.16e+00 (2.37e-01) -	1.26e+00 (1.77e-01) -	1.29e+00 (2.28e-01) -
CEC19-MaTSO5-T45	3.08e-02 (1.20e-02)	1.50e+00 (8.06e-01) -	2.17e+00 (2.91e-01) -	1.13e+00 (1.89e-01) -	1.37e+00 (1.80e-01) -	1.31e+00 (1.97e-01) -
CEC19-MaTSO5-T46	4.34e-02 (1.40e-02)	1.34e+00 (1.06e+00) -	1.94e+00 (2.37e-01) -	1.18e+00 (3.09e-01) -	1.34e+00 (1.70e-01) -	1.33e+00 (2.57e-01) -
CEC19-MaTSO5-T47	8.76e-02 (1.98e-01)	1.46e+00 (9.19e-01) -	2.13e+00 (3.39e-01) -	1.17e+00 (2.57e-01) -	1.27e+00 (1.94e-01) -	1.30e+00 (2.28e-01) -
CEC19-MaTSO5-T48	6.19e-02 (2.24e-02)	1.12e+00 (5.11e-01) -	2.14e+00 (3.42e-01) -	1.15e+00 (2.43e-01) -	1.34e+00 (1.71e-01) -	1.34e+00 (2.06e-01) -
		1.20 00 (5.10 01)	2.2000 (2.2501)	1.09e+00 (2.24e-01) -	1.36e+00 (1.94e-01) -	1.45e+00 (2.95e-01) -
CEC19-MaTSO5-T49	3.12e-02 (8.71e-03)	1.39e+00 (7.10e-01) -	2.20e+00 (3.25e-01) -	1.090+00 (2.240-01) -	1.300+00 (1.940-01) -	1.436+00 (2.936-01) -
CEC19-MaTSO5-T49 CEC19-MaTSO5-T50	3.12e-02 (8.71e-03) 4.19e-02 (9.19e-03)	1.39e+00 (7.10e-01) - 1.23e+00 (9.01e-01) -	2.20e+00 (3.25e-01) - 2.06e+00 (2.72e-01) -	1.09e+00 (2.24e-01) - 1.23e+00 (2.57e-01) -	1.34e+00 (1.89e-01) -	1.36e+00 (2.86e-01) -

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO6 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO6 IN TEST SUITE 3.

Problem RR-MITDE							
ECEP MATSOCH 2 S45-e03 (2.37-e03) 9.66-e02 (3.28-e02) + 3.75-e03 (3.26-e03) 1.22-e04 (8.97-e02) 1.22-e04 (8.97-e02) 1.22-e04 (6.74-e02) 1.22							
CECP-MATSOCH	CEC19-MaTSO6-T1	7.96e+03 (1.30e+03)	1.05e+03 (3.65e+02) +	5.00e+01 (2.49e+01) +	1.10e+04 (5.91e+02) -	2.68e+03 (3.54e+02) +	
CEC19MATSOG-15 7224-013 1084-013 1084-013 4255-02) 4 975-011 1994-011 1184-014 (3894-02) 11224-014 (7.614-02) 1184-014 (6.754-02) CEC19MATSOG-15 7.766-013 (1.154-03) 1084-013 (3.516-02) 7.706-013 (1.154-03) 1084-013 (3.516-02) 7.706-013 (1.154-03) 1084-013 (3.516-02) 7.706-013 (1.154-03) 1084-013 (3.516-02) 7.706-013 (1.154-03) 1084-013 (3.516-02) 7.706-013 (1.154-03) 1084-013 (3.516-02) 7.706-013 (1.154-04) 1084-013 (3.516-02) 7.706-013 (1.154-04) 1084-013 (3.516-02) 7.706-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04) 1084-013 (1.154-04)	CEC19-MaTSO6-T2	8.54e+03 (2.37e+03)	9.64e+02 (3.28e+02) +		1.27e+04 (9.00e+02) -	1.23e+04 (8.97e+02) -	1.27e+04 (6.74e+02) -
ECE19MITSOG-15 7.72e-013 (9.62e-02) 102e-013 (3.49e-02) + 7.20e-014 (1.99e-01) + 1.70e-014 (7.35e-02) - 1.77e-014 (7.35e-02) - 1.77	CEC19-MaTSO6-T3	8.36e+03 (1.13e+03)	1.06e+03 (4.13e+02) +	4.85e+01 (3.92e+01) +	1.19e+04 (7.22e+02) -	2.72e+03 (3.87e+02) +	1.20e+04 (5.33e+02) -
ECE19MITSOG-16 7.766-03 (1.15e-03) 1.086-03 (3.51e-02) + 7.206-01 (4.500-04) + 1.176-04 (3.536-02) 1.176-04 (3.776-02) 1.166-04 (8.91e-02) 1.006-04 (9.81e-02) 2.796-03 (4.800-02) 1.006-04 (8.91e-02) 1.006-04 (9.81e-02) 2.796-03 (4.800-02) 1.006-04 (9.81e-02) 2.796-03 (4.800-02) 1.006-04 (9.81e-02) 2.796-03 (4.800-02) 1.006-04 (9.81e-02) 1.0	CEC19-MaTSO6-T4	7.14e+03 (2.11e+03)	1.08e+03 (4.25e+02) +	4.81e+01 (1.95e+01) +	1.13e+04 (8.89e+02) -	1.12e+04 (7.61e+02) -	1.13e+04 (6.76e+02) -
ECE19MaTS06-T8 A35e403 (1.74e403) 1.04e+013 (3.75e402) + 0.89e401 (6.94e401) + 1.08e404 (6.81e402) - 2.79e403 (4.80e402) + 1.02e404 (6.91e402) - 1.02e404 (6.91e402) + 1.0	CEC19-MaTSO6-T5	7.22e+03 (9.62e+02)	1.02e+03 (3.49e+02) +	4.97e+01 (1.99e+01) +	1.07e+04 (1.04e+03) -	2.54e+03 (4.42e+02) +	1.10e+04 (6.25e+02) -
CEC19MaTSO6-T9	CEC19-MaTSO6-T6	7.76e+03 (1.15e+03)	1.08e+03 (3.51e+02) +	7.20e+01 (4.50e+01) +	1.17e+04 (7.53e+02) -	1.17e+04 (5.27e+02) -	1.16e+04 (4.77e+02) -
CEC19MaTS06-T19 948c403 (4.25c403) 9.50c-02 (3.24c402) + 3.96c401 (2.93c401) + 4.03c401 (5.85c402) - 2.88c403 (3.47c402) + 1.26c404 (6.93c402) - 3.05c403 (4.25c403) 9.50c403 (3.55c403) 9.50c402 (3.88c402) + 2.80c401 (1.27c401) + 1.30c404 (5.02c402) - 9.51c403 (4.07c402) + 1.39c404 (5.13c402) 9.50c403 (1.05c403) 9.50c403 (1.05c403) 9.68c403 (1.05c403) 9.68c402 (3.88c402) + 2.280c401 (1.27c401) + 1.30c404 (5.02c402) - 1.27c403 (4.07c402) + 1.39c404 (5.13c402) 9.50c403 (1.05c403) 9.68c403 (1.05c403) 9.57ac401 (2.05c404) 9.58c404 (1.05c403) 9.58c403 (1.05c403) 9.57ac403 (1.05c403) 9.50c403 (1.0	CEC19-MaTSO6-T7	6.43e+03 (1.74e+03)	1.04e+03 (3.75e+02) +	6.89e+01 (6.94e+01) +	1.06e+04 (9.81e+02) -	2.79e+03 (4.80e+02) +	1.02e+04 (8.91e+02) -
CEC19-MaTS06-T110 5.75e+03 (8.65e+02) 1.08e+03 (3.62e+02) + 4.65e+01 (1.27e+01) + 1.36e+04 (2.62e+02) - 2.77e+03 (4.07e+02) + 1.39e+04 (5.15e+02) - 1.27e+04 (4.07e+02) - 2.77e+03 (4.07e+02) + 1.39e+04 (5.15e+02) - 2.76e+03 (4.07e+02) + 1.39e+04 (5.15e+02) +							
ECEP-MaTS06-T12			` /	` /	(,	. ,	
EEC19-MaTS06-T12							
ECE 9MaTSO6-T13		((,	(,
ECEPMATSO6-T15							
ECE)-MaTSOG-T15							
ECE19-MaTSOG-T16							
ECE19MaTSO6-T19		` /		` /	` /	. ,	\ /
ECCI9-MaTSOG-T19							
ECC19-MaTSO6-T20			` /	` /	` /	. ,	` ′
CEC19-MaTSOG-T20							
ECE19-MaTSO6-T21 7.22e+03 (1.51e+03) 1.08e+03 (3.29e+02) + 4.74e+01 (2.13e+01) + 1.14e+04 (6.57e+02) - 1.19e+04 (7.63e+02) - 1.15e+04 (1.02e+03) - 1.5e+04 (1.09e+03) - 1.5					(/		(,
EEC19-MaTSO6-T22 8.36e+03 (1.09e+03) 9.51e+02 (3.76e+02) + 3.20e+01 (2.16e+01) + 1.7e+04 (8.86e+02) - 1.19e+04 (7.63e+02) - 1.15e+04 (1.09e+03) - EEC19-MaTSO6-T23 8.26e+03 (9.02e+02) 9.89e+02 (3.91e+02) + 4.00e+01 (2.24e+01) + 1.7e+04 (6.40e+02) - 1.16e+04 (8.01e+02) + 1.18e+04 (6.51e+02) - EEC19-MaTSO6-T24 7.65e+03 (1.07e+03) 9.72e+02 (3.49e+02) + 4.76e+01 (3.19e+01) + 1.7e+04 (6.40e+02) - 1.6e+04 (8.01e+02) + 1.18e+04 (7.01e+02) - EEC19-MaTSO6-T25 7.43e+03 (2.02e+03) 9.72e+02 (3.49e+02) + 4.76e+01 (3.19e+01) + 1.18e+04 (7.00e+02) - 2.86e+03 (5.42e+02) + 1.15e+04 (7.10e+02) - EEC19-MaTSO6-T26 8.59e+03 (2.69e+03) 1.09e+03 (3.52e+02) + 4.63e+01 (5.83e+01) + 1.18e+04 (7.09e+02) - 2.86e+03 (5.42e+02) + 1.15e+04 (7.10e+02) - EEC19-MaTSO6-T27 8.72e+03 (1.11e+03) 1.10e+03 (4.14e+02) + 7.01e+01 (5.17e+01) + 1.22e+04 (7.92e+02) - 2.64e+03 (4.50e+02) + 1.03e+04 (9.66e+02) - EEC19-MaTSO6-T28 6.48e+03 (1.07e+03) 9.86e+02 (4.17e+02) + 6.91e+01 (5.10e+01) + 1.12e+04 (1.00e+03) - 1.03e+04 (8.13e+02) + 1.03e+04 (1.02e+03) - EEC19-MaTSO6-T30 7.46e+03 (1.89e+03) 1.04e+03 (4.28e+02) + 6.87e+01 (3.91e+01) + 1.13e+04 (8.10e+02) - 2.70e+03 (3.60e+02) + 1.12e+04 (8.29e+02) - EEC19-MaTSO6-T30 7.46e+03 (1.89e+03) 1.04e+03 (4.09e+02) + 5.05e+01 (2.97e+01) + 1.17e+04 (8.27e+02) - 2.72e+03 (5.58e+02) + 1.15e+04 (6.25e+02) - EEC19-MaTSO6-T32 8.28e+03 (1.29e+03 (1.89e+03) 1.06e+03 (4.00e+02) + 4.04e+01 (2.20e+01) + 1.25e+04 (5.22e+02) - 1.25e+04 (7.59e+02) - 1.27e+04 (7.75e+02) - EEC19-MaTSO6-T33 8.18e+03 (1.88e+03) 1.01e+03 (3.45e+02) + 5.28e+01 (3.36e+01) + 1.21e+04 (4.94e+02) - 2.51e+03 (3.01e+02) + 1.21e+04 (5.99e+02) - EEC19-MaTSO6-T35 8.28e+03 (1.18e+03) 1.05e+03 (3.05e+02) + 5.40e+01 (2.20e+01) + 1.25e+04 (5.29e+02) - 2.25e+04 (7.59e+02) - 1.20e+04 (5.99e+02) - EEC19-MaTSO6-T35 8.28e+03 (1.18e+03) 1.05e+03 (3.05e+02) + 5.40e+01 (3.35e+01) + 1.25e+04 (6.90e+0							
EEC19-MaTSO6-T23				(,	(,	(,	(,
CEC19-MaTSO6-T24 7.65e+03 (1.71e+03) 1.04e+03 (2.96e+02) + 4.06e+01 (2.24e+01) + 1.17e+04 (6.40e+02) - 1.16e+04 (8.01e+02) - 1.15e+04 (7.92e+02) - CEC19-MaTSO6-T25 7.43e+03 (2.02e+03) 9.72e+02 (3.49e+02) + 4.76e+01 (3.19e+01) + 1.18e+04 (7.30e+02) - 2.86e+03 (5.42e+02) + 1.15e+04 (7.10e+02) - CEC19-MaTSO6-T27 8.59e+03 (2.69e+03) 1.09e+03 (3.25e+02) + 4.63e+01 (5.83e+01) + 1.34e+04 (7.92e+02) - 1.35e+04 (5.11e+02) - 1.35e+04 (4.92e+02) - CEC19-MaTSO6-T27 8.72e+03 (1.11e+03) 1.10e+03 (4.14e+02) + 7.01e+01 (5.17e+01) + 1.22e+04 (7.92e+02) - 2.64e+03 (4.50e+02) + 1.02e+04 (9.66e+02) - CEC19-MaTSO6-T28 6.88e+03 (1.07e+03) 9.91e+02 (3.76e+02) + 6.57e+01 (3.91e+01) + 1.11e+04 (1.05e+03) - 1.03e+04 (1.02e+03) - 1.03e+04 (1.03e+03) - 1.03e+04 (1.03e							
CEC19-MaTS06-T25							
CEC19-MaTSO6-T27 R.72e+03 (1.11e+03) 1.09e+03 (3.25e+02) + 4.63e+01 (5.83e+01) + 1.34e+04 (7.69e+02) - 1.35e+04 (5.11e+02) - 1.35e+04 (4.92e+02) - 1.20e+04 (9.66e+02) - 1.20e+04 (1.07e+03) 1.00e+03 (4.14e+02) + 7.01e+01 (5.17e+01) + 1.20e+04 (7.09e+02) - 2.64e+03 (4.50e+02) + 1.20e+04 (9.66e+02) - 1.35e+04 (8.13e+02) + 1.30e+04 (8.13e+02) + 1						((,
CEC19-MaTS06-T27 8.72e+03 (1.11e+03) 1.10e+03 (4.14e+02) + 7.01e+01 (5.17e+01) + 1.22e+04 (7.92e+02) - 2.64e+03 (4.50e+02) + 1.20e+04 (9.66e+02) - CEC19-MaTS06-T28 6.48e+03 (1.07e+03) 9.86e+02 (4.17e+02) + 6.91e+01 (5.10e+01) + 1.10e+04 (1.06e+03) - 1.03e+04 (8.13e+02) - 1.03e+04 (1.02e+03) - 1.03e+04 (8.13e+02) + 1.2e+04 (8.9e+02) - CEC19-MaTS06-T30 7.46e+03 (1.32e+03) 9.91e+02 (3.76e+02) + 6.87e+01 (5.27e+01) + 1.14e+04 (1.03e+03) - 1.15e+04 (6.47e+02) - 1.16e+04 (6.25e+02) - CEC19-MaTS06-T31 7.89e+03 (1.09e+03) 1.08e+03 (4.09e+02) + 5.05e+01 (2.97e+01) + 1.17e+04 (8.27e+02) - 1.25e+04 (7.52e+02) - 1.25e+04 (7.52e+02) - CEC19-MaTS06-T31 7.89e+03 (1.09e+03) 1.06e+03 (4.00e+02) + 4.04e+01 (2.20e+01) + 1.25e+04 (5.22e+02) - 1.25e+04 (7.52e+02) - 1.27e+03 (5.58e+02) + 1.15e+04 (8.64e+02) - CEC19-MaTS06-T33 8.18e+03 (1.88e+03) 1.01e+03 (3.45e+02) + 5.28e+01 (3.36e+01) + 1.21e+04 (4.94e+02) - 2.51e+03 (3.01e+02) + 1.21e+04 (7.39e+02) - CEC19-MaTS06-T33 8.18e+03 (1.65e+03) 9.82e+02 (2.81e+02) + 4.18e+01 (2.44e+01) + 1.21e+04 (4.94e+02) - 2.51e+03 (3.01e+02) + 1.21e+04 (7.39e+02) - CEC19-MaTS06-T35 8.42e+03 (1.11e+03) 9.82e+02 (2.81e+02) + 4.18e+01 (2.44e+01) + 1.31e+04 (4.03e+02) - 2.75e+03 (3.88e+02) + 1.22e+04 (5.17e+02) - CEC19-MaTS06-T36 6.90e+03 (8.10e+02) 1.10e+03 (4.17e+02) + 5.80e+01 (3.32e+01) + 1.20e+04 (5.63e+02) - 2.75e+03 (3.88e+02) + 1.22e+04 (5.19e+02) - CEC19-MaTS06-T37 8.28e+03 (1.18e+03) 9.79e+02 (3.83e+02) + 3.48e+01 (3.73e+01) + 1.22e+04 (6.19e+02) - 2.83e+03 (5.32e+02) + 1.20e+04 (6.89e+02) - CEC19-MaTS06-T37 8.79e+03 (1.00e+03) 1.02e+03 (3.05e+02) + 5.01e+01 (3.08e+01) + 1.22e+04 (6.19e+02) - 2.62e+03 (3.63e+02) + 1.20e+04 (6.89e+02) - CEC19-MaTS06-T39 8.79e+03 (1.00e+03) 1.03e+03 (3.51e+02) + 5.61e+01 (3.08e+01) + 1.22e+04 (7.16e+02) - 2.62e+03 (3.63e+02) + 1.20e+04 (6.53e+02) - CEC19-MaTS06-T34 7.50e+03 (2.30e+03) 1.05e+03 (3.98e+02) + 5.61e+01 (3.08e+01) + 1.22e+04 (7.16e+02) - 2.62e+03 (3.63e+02) + 1.20e+04 (6.53e+02) - CEC19-MaTS06-T44	CEC19-MaTSO6-T25	7.43e+03 (2.02e+03)	9.72e+02 (3.49e+02) +	4.76e+01 (3.19e+01) +	1.18e+04 (7.30e+02) -	2.86e+03 (5.42e+02) +	1.15e+04 (7.10e+02) -
$ \begin{array}{c} \text{CEC19-MaTSO6-T28} & 6.48 \text{e} + 03 & (1.07 \text{e} + 03) & 9.86 \text{e} + 10 & (4.17 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T29} & 7.60 \text{e} + 03 & (1.32 \text{e} + 03) & 9.91 \text{e} + 02 & (3.76 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T29} & 7.60 \text{e} + 03 & (1.32 \text{e} + 03) & (1.92 \text{e} + 03) & (1.92 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T30} & 7.46 \text{e} + 03 & (1.89 \text{e} + 03) & 1.04 \text{e} + 03 & (4.28 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T31} & 7.89 \text{e} + 03 & (1.09 \text{e} + 03) & 1.08 \text{e} + 03 & (4.09 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T32} & 8.28 \text{e} + 03 & (2.27 \text{e} + 03) & 1.06 \text{e} + 03 & (4.09 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T32} & 8.28 \text{e} + 03 & (2.27 \text{e} + 03) & 1.06 \text{e} + 03 & (4.09 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T33} & 8.18 \text{e} + 03 & (1.08 \text{e} + 03) & (1.06 \text{e} + 03) & (4.00 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T33} & 8.18 \text{e} + 03 & (1.06 \text{e} + 03) & (4.00 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T34} & 9.28 \text{e} + 03 & (1.65 \text{e} + 03) & 9.82 \text{e} + 02 & (2.81 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T35} & 8.28 \text{e} + 03 & (1.06 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T35} & 8.42 \text{e} + 03 & (1.10 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T36} & 8.42 \text{e} + 03 & (1.10 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T36} & 8.28 \text{e} + 03 & (1.18 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T36} & 8.28 \text{e} + 03 & (1.18 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T37} & 8.28 \text{e} + 03 & (1.18 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T37} & 8.28 \text{e} + 03 & (1.18 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T37} & 8.28 \text{e} + 03 & (1.18 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T37} & 8.28 \text{e} + 03 & (1.18 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T37} & 8.28 \text{e} + 03 & (1.06 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T37} & 8.28 \text{e} + 03 & (1.06 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T38} & 8.27 \text{e} + 03 & (1.06 \text{e} + 03) & (4.02 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T39} & 8.79 \text{e} + 03 & (3.06 \text{e} + 02) & (3.06 \text{e} + 02) + \\ \text{CEC19-MaTSO6-T39} & 8.79 \text{e} + 03 & (3.06 \text{e} + 02) & (3.06 $	CEC19-MaTSO6-T26	8.59e+03 (2.69e+03)	1.09e+03 (3.25e+02) +	4.63e+01 (5.83e+01) +	1.34e+04 (7.69e+02) -	1.35e+04 (5.11e+02) -	1.35e+04 (4.92e+02) -
CEC19-MaTSO6-T29							
CEC19-MaTS06-T30							
CEC19-MaTSO6-T31 7.89e+03 (1.09e+03) 1.08e+03 (4.09e+02) + 5.05e+01 (2.97e+01) + 1.17e+04 (8.27e+02) - 2.72e+03 (5.58e+02) + 1.15e+04 (8.64e+02) - CEC19-MaTSO6-T32 8.28e+03 (2.27e+03) 1.06e+03 (4.00e+02) + 4.04e+01 (2.20e+01) + 1.25e+04 (5.22e+02) - 1.25e+04 (7.59e+02) - 1.27e+04 (7.75e+02) - CEC19-MaTSO6-T33 8.18e+03 (1.88e+03) 1.01e+03 (3.45e+02) + 5.28e+01 (3.36e+01) + 1.21e+04 (4.94e+02) - 2.51e+03 (3.01e+02) + 1.21e+04 (7.39e+02) - CEC19-MaTSO6-T34 9.28e+03 (1.65e+03) 9.82e+02 (2.81e+02) + 4.18e+01 (2.44e+01) + 1.31e+04 (4.33e+02) - 1.29e+04 (6.53e+02) - 1.30e+04 (5.17e+02) - CEC19-MaTSO6-T35 8.42e+03 (1.11e+03) 1.05e+03 (4.02e+02) + 5.40e+01 (2.72e+01) + 1.21e+04 (7.54e+02) - 2.75e+03 (3.88e+02) + 1.22e+04 (5.91e+02) - CEC19-MaTSO6-T36 6.90e+03 (8.10e+02) 1.10e+03 (4.17e+02) + 6.58e+01 (5.32e+01) + 1.05e+04 (9.25e+02) - 1.01e+04 (9.75e+02) - 9.93e+03 (7.62e+02) - CEC19-MaTSO6-T38 8.28e+03 (1.18e+03) 9.79e+02 (3.83e+02) + 3.48e+01 (1.79e+01) + 1.22e+04 (6.19e+02) - 2.83e+03 (5.32e+02) + 1.20e+04 (8.92e+02) - CEC19-MaTSO6-T38 8.27e+03 (1.00e+03) 1.02e+03 (3.06e+02) + 5.01e+01 (4.23e+01) + 1.23e+04 (6.38e+02) - 1.20e+04 (8.12e+02) - CEC19-MaTSO6-T38 8.79e+03 (1.00e+03) 1.03e+03 (3.51e+02) + 5.61e+01 (3.08e+01) + 1.23e+04 (6.38e+02) - 1.20e+04 (8.12e+02) - 1.20e+04 (6.25e+02) - CEC19-MaTSO6-T40 7.99e+03 (2.34e+03) 9.79e+02 (3.59e+02) + 5.46e+01 (3.38e+01) + 1.25e+04 (7.16e+02) - 2.62e+03 (2.88e+02) + 1.20e+04 (6.35e+02) - CEC19-MaTSO6-T42 8.95e+03 (2.51e+03) 9.59e+02 (3.28e+02) + 3.31e+01 (1.76e+01) + 1.12e+04 (8.10e+02) - 1.22e+04 (6.31e+02) - 1.23e+04 (6.31e+02) - CEC19-MaTSO6-T42 8.95e+03 (2.51e+03) 9.59e+02 (3.28e+02) + 3.31e+01 (1.76e+01) + 1.12e+04 (8.60e+02) - 2.73e+03 (4.43e+02) + 1.14e+04 (8.32e+02) - CEC19-MaTSO6-T44 8.17e+03 (3.21e+02) + 6.48e+01 (3.33e+02) + 6.48e+01 (3.33e+02) + 1.10e+04 (6.39e+02) - 1.10e+04 (6.39e+02) +							
CEC19-MaTS06-T32 8.28e+03 (2.27e+03) 1.06e+03 (4.00e+02) + 4.04e+01 (2.20e+01) + 1.25e+04 (5.22e+02) - 1.25e+04 (7.59e+02) - 1.27e+04 (7.75e+02) - 1						((,
CEC19-MaTSO6-T33 8.18e+03 (1.88e+05) 1.01e+03 (3.45e+02) + 5.28e+01 (3.36e+01) + 1.21e+04 (4.94e+02) - 2.51e+03 (3.01e+02) + 1.21e+04 (7.39e+02) - CEC19-MaTSO6-T34 9.28e+03 (1.65e+03) 9.82e+02 (2.81e+02) + 4.18e+01 (2.44e+01) + 1.31e+04 (4.33e+02) - 1.29e+04 (6.53e+02) - 1.30e+04 (5.17e+02) - CEC19-MaTSO6-T35 8.42e+03 (1.11e+03) 1.05e+03 (4.02e+02) + 5.40e+01 (2.72e+01) + 1.05e+04 (9.25e+02) - 2.75e+03 (3.88e+02) + 1.22e+04 (5.91e+02) - CEC19-MaTSO6-T36 6.90e+03 (8.10e+02) 1.10e+03 (4.17e+02) + 6.58e+01 (5.32e+01) + 1.05e+04 (9.25e+02) - 1.01e+04 (9.75e+02) - 9.93e+03 (7.62e+02) - CEC19-MaTSO6-T37 8.28e+03 (1.18e+03) 9.79e+02 (3.83e+02) + 3.48e+01 (1.79e+01) + 1.22e+04 (6.19e+02) - 2.83e+03 (5.32e+02) + 1.20e+04 (8.92e+02) - CEC19-MaTSO6-T38 8.27e+03 (1.06e+03) 1.02e+03 (3.06e+02) + 5.01e+01 (4.23e+01) + 1.23e+04 (6.38e+02) - 1.20e+04 (8.12e+02) - 1.20e+04 (7.46e+02) - CEC19-MaTSO6-T39 8.79e+03 (1.00e+03) 1.03e+03 (3.51e+02) + 5.61e+01 (3.08e+01) + 1.22e+04 (7.16e+02) - 2.62e+03 (2.88e+02) + 1.20e+04 (6.53e+02) - CEC19-MaTSO6-T40 7.99e+03 (2.34e+03) 9.97e+02 (3.59e+02) + 5.46e+01 (3.33e+01) + 1.22e+04 (7.51e+02) - 1.22e+04 (7.47e+02) - 1.22e+04 (6.53e+02) - CEC19-MaTSO6-T41 7.56e+03 (2.30e+03) 1.05e+03 (3.98e+02) + 7.40e+01 (4.48e+01) + 1.12e+04 (1.11e+03) - 2.58e+03 (4.58e+02) + 1.14e+04 (8.03e+02) - CEC19-MaTSO6-T42 8.95e+03 (2.51e+03) 9.59e+02 (3.28e+02) + 3.31e+01 (1.76e+01) + 1.31e+04 (5.33e+02) - 1.30e+04 (6.31e+02) - 1.30e+04 (6.28e+02) - CEC19-MaTSO6-T44 8.17e+03 (8.70e+02) 9.61e+02 (4.04e+02) + 6.48e+01 (6.50e+01) + 1.12e+04 (8.60e+02) - 2.53e+03 (4.36e+02) + 1.14e+04 (5.28e+02) - CEC19-MaTSO6-T45 7.03e+03 (9.78e+02) 9.61e+02 (4.04e+02) + 6.23e+01 (3.37e+01) + 1.09e+04 (8.60e+02) - 2.53e+03 (4.39e+02) + 1.06e+04 (6.09e+02) - CEC19-MaTSO6-T45 7.03e+03 (9.78e+02) 9.61e+02 (4.04e+02) + 6.23e+01 (3.37e+01) + 1.09e+04 (6.58e+02) -							()
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CEC19-MaTSO6-T37 8.28e+03 (1.18e+05) 9.79e+02 (3.83e+02) + 3.48e+01 (1.79e+01) + 1.22e+04 (6.19e+02) - 2.83e+03 (5.32e+02) + 1.20e+04 (8.92e+02) - CEC19-MaTSO6-T38 8.27e+03 (1.06e+03) 1.02e+03 (3.06e+02) + 5.01e+01 (4.23e+01) + 1.23e+04 (6.38e+02) - 1.20e+04 (8.12e+02) - 1.20e+04 (7.46e+02) - CEC19-MaTSO6-T40 7.99e+03 (2.34e+03) 9.97e+02 (3.59e+02) + 5.61e+01 (3.08e+01) + 1.22e+04 (7.16e+02) - 2.62e+03 (2.88e+02) + 1.20e+04 (6.25e+02) - CEC19-MaTSO6-T41 7.56e+03 (2.30e+03) 9.59e+02 (3.59e+02) + 7.40e+01 (4.48e+01) + 1.12e+04 (1.11e+03) - 2.58e+03 (4.58e+02) + 1.14e+04 (8.03e+02) - CEC19-MaTSO6-T42 8.95e+03 (2.51e+03) 9.59e+02 (3.28e+02) + 3.31e+01 (1.76e+01) + 1.31e+04 (5.33e+02) - 1.30e+04 (6.31e+02) - 1.30e+04 (6.40e+02) - CEC19-MaTSO6-T42 8.95e+03 (2.51e+03) 9.59e+02 (3.28e+02) + 4.12e+01 (1.9e+01) + 1.12e+04 (8.00e+02) - 2.73e+03 (4.43e+02) + 1.14e+04 (5.28e+02) - CEC19-MaTSO6-T43 7.11e+03 (1.46e+03) 1.09e+03 (4.21e+02) + 6.48e+01 (6.50e+01) + 1.12e+04 (8.00e+02) - 2.73e+03 (4.43e+02) + 1.14e+04 (5.28e+02) - CEC19-MaTSO6-T45 7.03e+03 (9.48e+02) 9.61e+02 (4.04e+02) + 4.12e+01 (1.99e+01) + 1.09e+04 (8.60e+02) - 2.54e+03 (3.43e+02) + 1.06e+04 (6.03e+02) - CEC19-MaTSO6-T45 7.03e+03 (9.48e+02) 9.61e+02 (4.04e+02) + 6.32e+01 (3.37e+01) + 1.09e+04 (8.60e+02) - 2.54e+03 (3.34e+02) + 1.06e+04 (6.03e+02) - CEC19-MaTSO6-T45 6.76e+03 (1.23e+03) 1.04e+03 (3.30e+02) + 6.32e+01 (2.71e+01) + 1.09e+04 (6.58e+02) - 2.54e+03 (4.39e+02) + 1.06e+04 (6.03e+02) - CEC19-MaTSO6-T48 8.09e+03 (9.76e+02) 1.01e+03 (3.73e+02) + 8.07e+01 (7.19e+01) + 1.29e+04 (6.58e+02) - 2.69e+03 (4.39e+02) + 1.06e+04 (6.09e+02) - CEC19-MaTSO6-T49 8.08e+03 (8.35e+02) 1.01e+03 (3.30e+02) + 7.32e+01 (6.1e+01) + 1.18e+04 (7.06e+02) - 2.53e+03 (3.38e+02) + 1.18e+04 (6.1e+02) - CEC19-MaTSO6-T49 8.08e+03 (8.35e+02) 1.08e+03 (3.73e+02) + 1.01e+04 (6.1e+02) + 1.01e+04 (6.01e+02) - 1.0							
$ \begin{array}{c} \text{CEC19-MaTSO6-T38} & 8.27\text{e+03} & (1.06\text{e+03}) & 1.02\text{e+03} & (3.06\text{e+02}) + & 5.01\text{e+01} & (4.23\text{e+01}) + & 1.23\text{e+04} & (6.38\text{e+02}) - & 1.20\text{e+04} & (8.12\text{e+02}) - & 1.20\text{e+04} & (7.46\text{e+02}) - \\ \text{CEC19-MaTSO6-T39} & 8.79\text{e+03} & (1.00\text{e+03}) & 1.03\text{e+03} & (3.51\text{e+02}) + & 5.61\text{e+01} & (3.08\text{e+01}) + & 1.22\text{e+04} & (7.16\text{e+02}) - & 2.62\text{e+03} & (2.88\text{e+02}) + & 1.20\text{e+04} & (6.25\text{e+02}) - \\ \text{CEC19-MaTSO6-T40} & 7.99\text{e+03} & (2.30\text{e+03}) & 1.05\text{e+03} & (3.98\text{e+02}) + & 5.46\text{e+01} & (3.33\text{e+01}) + & 1.22\text{e+04} & (7.51\text{e+02}) - & 1.22\text{e+04} & (7.47\text{e+02}) - & 1.23\text{e+04} & (6.53\text{e+02}) - \\ \text{CEC19-MaTSO6-T41} & 7.56\text{e+03} & (2.30\text{e+03}) & 1.05\text{e+03} & (3.98\text{e+02}) + & 7.40\text{e+01} & (4.48\text{e+01}) + & 1.12\text{e+04} & (1.11\text{e+03}) - & 2.58\text{e+03} & (4.58\text{e+02}) + & 1.14\text{e+04} & (8.03\text{e+02}) - \\ \text{CEC19-MaTSO6-T42} & 8.95\text{e+03} & (2.51\text{e+03}) & 9.59\text{e+02} & (3.28\text{e+02}) + & 3.31\text{e+01} & (1.76\text{e+01}) + & 1.31\text{e+04} & (5.33\text{e+02}) - & 1.30\text{e+04} & (6.31\text{e+02}) - \\ \text{CEC19-MaTSO6-T43} & 7.11\text{e+03} & (1.46\text{e+03}) & 1.09\text{e+03} & (4.21\text{e+02}) + & 6.48\text{e+01} & (6.50\text{e+01}) + & 1.12\text{e+04} & (8.00\text{e+02}) - & 2.73\text{e+03} & (4.43\text{e+02}) + \\ \text{CEC19-MaTSO6-T44} & 8.17\text{e+03} & (8.70\text{e+02}) & 1.01\text{e+03} & (3.21\text{e+02}) + & 4.12\text{e+01} & (1.99\text{e+01}) + & 1.21\text{e+04} & (8.00\text{e+02}) - & 2.73\text{e+03} & (4.43\text{e+02}) + \\ \text{CEC19-MaTSO6-T45} & 7.03\text{e+03} & (9.48\text{e+02}) & 9.61\text{e+02} & (4.04\text{e+02}) + & 6.32\text{e+01} & (3.37\text{e+01}) + & 1.09\text{e+04} & (8.60\text{e+02}) - & 2.54\text{e+03} & (3.43\text{e+02}) + & 1.16\text{e+04} & (6.21\text{e+02}) - \\ \text{CEC19-MaTSO6-T45} & 7.03\text{e+03} & (9.48\text{e+02}) & 9.61\text{e+02} & (4.04\text{e+02}) + & 6.32\text{e+01} & (3.37\text{e+01}) + & 1.09\text{e+04} & (8.60\text{e+02}) - & 2.54\text{e+03} & (3.43\text{e+02}) + & 1.06\text{e+04} & (9.03\text{e+02}) - \\ \text{CEC19-MaTSO6-T46} & 6.76\text{e+03} & (1.23\text{e+03}) & 1.04\text{e+03} & (3.30\text{e+02}) + & 8.07\text{e+01} & (7.19\text{e+01}) + & 1.29\text{e+04} & (6.58\text{e+02}) - & 1.06\text{e+04} & (9.57\text{e+02}) - \\ \text{CEC19-MaTSO6-T49} & 8.08\text{e+03} & (8.35e+0$							
CEC19-MaTSO6-T39 8.79e+03 (1.00e+05) 1.03e+03 (3.51e+02) + 5.61e+01 (3.08e+01) + 1.22e+04 (7.16e+02) - 2.62e+03 (2.88e+02) + 1.20e+04 (6.25e+02) - CEC19-MaTSO6-T40 7.99e+03 (2.34e+03) 9.97e+02 (3.59e+02) + 5.46e+01 (3.33e+01) + 1.25e+04 (7.51e+02) - 1.22e+04 (7.47e+02) - 1.23e+04 (6.53e+02) - CEC19-MaTSO6-T41 7.56e+03 (2.30e+03) 1.05e+03 (3.98e+02) + 7.40e+01 (4.48e+01) + 1.12e+04 (1.11e+03) - 2.58e+03 (4.58e+02) + 1.14e+04 (8.03e+02) - CEC19-MaTSO6-T42 8.95e+03 (2.51e+03) 9.59e+02 (3.28e+02) + 3.31e+01 (1.76e+01) + 1.31e+04 (5.33e+02) - 1.30e+04 (6.31e+02) - 1.30e+04 (6.40e+02) - CEC19-MaTSO6-T43 7.11e+03 (1.46e+03) 1.09e+03 (4.21e+02) + 6.48e+01 (6.50e+01) + 1.12e+04 (8.60e+02) - 2.73e+03 (4.43e+02) + 1.14e+04 (5.28e+02) - CEC19-MaTSO6-T44 8.17e+03 (8.70e+02) 1.01e+03 (3.21e+02) + 4.12e+01 (1.99e+01) + 1.21e+04 (8.69e+02) - 1.18e+04 (7.45e+02) - 1.19e+04 (6.21e+02) - CEC19-MaTSO6-T45 7.03e+03 (9.48e+02) 9.61e+02 (4.04e+02) + 6.23e+01 (3.37e+01) + 1.09e+04 (8.60e+02) - 2.54e+03 (3.43e+02) + 1.06e+04 (6.03e+02) - CEC19-MaTSO6-T46 6.76e+03 (1.23e+03) 1.04e+03 (3.30e+02) + 6.32e+01 (2.71e+01) + 1.06e+04 (9.55e+02) - 1.06e+04 (9.57e+02) - 1.06e+04 (9.12e+02) - CEC19-MaTSO6-T47 9.10e+03 (2.91e+03) 9.84e+02 (3.73e+02) + 8.07e+01 (7.19e+01) + 1.29e+04 (6.58e+02) - 2.69e+03 (4.39e+02) + 1.32e+04 (6.18e+02) - CEC19-MaTSO6-T48 8.09e+03 (9.76e+02) 1.01e+03 (3.73e+02) + 7.32e+01 (6.16e+01) + 1.18e+04 (7.06e+02) - 2.53e+03 (3.87e+02) + 1.10e+04 (8.49e+02) - CEC19-MaTSO6-T50 7.93e+03 (1.60e+03) 1.05e+03 (3.43e+02) + 4.60e+01 (2.61e+01) + 1.15e+04 (8.83e+02) - 2.53e+03 (3.87e+02) + 1.10e+04 (8.49e+02) - CEC19-MaTSO6-T50 7.93e+03 (1.60e+03) 1.05e+03 (3.43e+02) + 4.60e+01 (2.61e+01) + 1.15e+04 (8.83e+02) - 2.53e+03 (3.87e+02) + 1.10e+04 (8.49e+02) - CEC19-MaTSO6-T50 7.93e+03 (1.60e+03) 1.05e+03 (3.43e+02) + 4.60e+01 (2.61e+01) + 1.15e+04 (8.83e+02) -							
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CEC19-MaTSO6-T41 7.56e+03 (2.30e+03) 1.05e+03 (3.98e+02) + 7.40e+01 (4.48e+01) + 1.12e+04 (1.11e+03) - 2.58e+03 (4.58e+02) + 1.14e+04 (8.03e+02) - CEC19-MaTSO6-T42 8.95e+03 (2.51e+03) 9.59e+02 (3.28e+02) + 3.31e+01 (1.76e+01) + 1.31e+04 (5.33e+02) - 1.30e+04 (6.31e+02) - 1.30e+04 (6.40e+02) - CEC19-MaTSO6-T43 7.11e+03 (1.46e+03) 1.09e+03 (4.21e+02) + 6.48e+01 (6.50e+01) + 1.12e+04 (8.60e+02) - 2.73e+03 (4.43e+02) + 1.14e+04 (5.28e+02) - CEC19-MaTSO6-T44 8.17e+03 (8.70e+02) 1.01e+03 (3.21e+02) + 4.12e+01 (1.99e+01) + 1.21e+04 (8.60e+02) - 1.18e+04 (7.45e+02) - 1.19e+04 (6.21e+02) - CEC19-MaTSO6-T45 7.03e+03 (9.48e+02) 9.61e+02 (4.04e+02) + 6.23e+01 (3.37e+01) + 1.09e+04 (8.60e+02) - 2.54e+03 (3.43e+02) + 1.06e+04 (6.03e+02) - CEC19-MaTSO6-T46 6.76e+03 (1.23e+03) 1.04e+03 (3.30e+02) + 6.32e+01 (2.71e+01) + 1.06e+04 (9.55e+02) - 1.06e+04 (9.57e+02) - 1.06e+04 (9.12e+02) - CEC19-MaTSO6-T47 9.10e+03 (2.91e+03) 9.84e+02 (3.73e+02) + 8.07e+01 (7.19e+01) + 1.29e+04 (6.58e+02) - 2.69e+03 (4.39e+02) + 1.32e+04 (6.18e+02) - CEC19-MaTSO6-T48 8.09e+03 (9.76e+02) 1.01e+03 (4.06e+02) + 7.32e+01 (6.61e+01) + 1.18e+04 (7.06e+02) - 1.20e+04 (6.29e+02) + 1.15e+04 (6.18e+02) - CEC19-MaTSO6-T49 8.08e+03 (8.35e+02) 1.08e+03 (3.72e+02) + 1.31e+02 (1.46e+02) + 1.16e+04 (6.25e+02) - 2.53e+03 (3.87e+02) + 1.10e+04 (8.49e+02) - CEC19-MaTSO6-T50 7.93e+03 (1.60e+03) 1.05e+03 (3.43e+02) + 4.60e+01 (2.61e+01) + 1.15e+04 (8.83e+02) - 1.18e+04 (6.90e+02) - 1.17e+04 (6.61e+02) - CEC19-MaTSO6-T50 7.93e+03 (1.60e+03) 1.05e+03 (3.43e+02) + 4.60e+01 (2.61e+01) + 1.15e+04 (8.83e+02) - 1.18e+04 (6.90e+02) - 1.17e+04 (6.61e+02) - CEC19-MaTSO6-T50 7.93e+03 (1.60e+03) 1.05e+03 (3.43e+02) + 4.60e+01 (2.61e+01) + 1.15e+04 (8.83e+02) - 1.18e+04 (6.90e+02) - 1.17e+04 (6.61e+02) - CEC19-MaTSO6-T50 7.93e+03 (1.60e+03) 1.05e+03 (3.43e+02) + 4.60e+01 (2.61e+01) + 1.15e+04 (8.83e+02) - 1.18e+04 (6.90e+02) - 1.17e+04 (6.61e+02) - CEC19-MaTSO6-T50 7.93e+03 (1.60e+03) 1.05e+03 (3.43e+02) + 4.60e+01 (2.61e+01) + 1.15e+04 (8.83e+02) - 1.18e+04 (6.90e+02) - 1.17e+04 (
$ \begin{array}{c} \text{CEC19-MaTSO6-T42} & 8.95\text{e+}03 \ (2.51\text{e+}03) & 9.59\text{e+}02 \ (3.28\text{e+}02) + \\ 3.31\text{e+}01 \ (1.76\text{e+}01) + \\ 1.31\text{e+}04 \ (5.33\text{e+}02) - \\ 1.30\text{e+}04 \ (6.31\text{e+}02) - \\ 2.73\text{e+}03 \ (4.43\text{e+}02) + \\ 1.14\text{e+}04 \ (5.28\text{e+}02) - \\ 2.73\text{e+}03 \ (4.43\text{e+}02) + \\ 1.18\text{e+}04 \ (7.45\text{e+}02) - \\ 2.73\text{e+}03 \ (4.43\text{e+}02) + \\ 1.18\text{e+}04 \ (7.45\text{e+}02) - \\ 1.$							(,
$ \begin{array}{c} \textbf{CEC19-MaTSO6-T43} & 7.11\text{e}+03 & (1.46\text{e}+03) & 1.09\text{e}+03 & (4.21\text{e}+02) + & 6.48\text{e}+01 & (6.50\text{e}+01) + & 1.12\text{e}+04 & (8.60\text{e}+02) - & 2.73\text{e}+03 & (4.43\text{e}+02) + & 1.14\text{e}+04 & (5.28\text{e}+02) - \\ \textbf{CEC19-MaTSO6-T44} & 8.17\text{e}+03 & (8.70\text{e}+02) & 1.01\text{e}+03 & (3.21\text{e}+02) + & 4.12\text{e}+01 & (1.99\text{e}+01) + & 1.21\text{e}+04 & (8.69\text{e}+02) - & 1.18\text{e}+04 & (7.45\text{e}+02) - & 1.19\text{e}+04 & (6.21\text{e}+02) - \\ \textbf{CEC19-MaTSO6-T45} & 7.03\text{e}+03 & (9.48\text{e}+02) & 9.61\text{e}+02 & (4.04\text{e}+02) + & 6.23\text{e}+01 & (3.37\text{e}+01) + & 1.09\text{e}+04 & (8.60\text{e}+02) - & 2.54\text{e}+03 & (3.43\text{e}+02) + & 1.06\text{e}+04 & (6.03\text{e}+02) - \\ \textbf{CEC19-MaTSO6-T46} & 6.76\text{e}+03 & (1.23\text{e}+03) & 1.04\text{e}+03 & (3.30\text{e}+02) + & 6.32\text{e}+01 & (2.71\text{e}+01) + & 1.06\text{e}+04 & (9.55\text{e}+02) - & 1.06\text{e}+04 & (9.57\text{e}+02) - \\ \textbf{CEC19-MaTSO6-T47} & 9.10\text{e}+03 & (2.91\text{e}+03) & 9.84\text{e}+02 & (3.73\text{e}+02) + & 8.07\text{e}+01 & (7.19\text{e}+01) + & 1.29\text{e}+04 & (6.58\text{e}+02) - & 2.69\text{e}+03 & (4.39\text{e}+02) + & 1.32\text{e}+04 & (6.18\text{e}+02) - \\ \textbf{CEC19-MaTSO6-T48} & 8.09\text{e}+03 & (9.76\text{e}+02) & 1.01\text{e}+03 & (4.06\text{e}+02) + & 7.32\text{e}+01 & (6.1\text{e}+01) + & 1.18\text{e}+04 & (7.06\text{e}+02) - & 2.53\text{e}+03 & (3.87\text{e}+02) + & 1.10\text{e}+04 & (8.38\text{e}+02) - \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e}+03 & (8.35\text{e}+02) & 1.08\text{e}+03 & (3.72\text{e}+02) + & 1.31\text{e}+02 & (1.46\text{e}+02) + & 1.16\text{e}+04 & (6.25\text{e}+02) - & 2.53\text{e}+03 & (3.87\text{e}+02) + & 1.10\text{e}+04 & (8.38\text{e}+02) - \\ \textbf{CEC19-MaTSO6-T50} & 7.93\text{e}+03 & (1.60\text{e}+03) & 1.05\text{e}+03 & (3.43\text{e}+02) + & 4.60\text{e}+01 & (2.61\text{e}+01) + & 1.15\text{e}+04 & (8.83\text{e}+02) - & 1.15\text{e}+04 & (6.09\text{e}+02) - & 1.17\text{e}+04 & (6.61\text{e}+02) - \\ \textbf{CEC19-MaTSO6-T50} & 7.93\text{e}+03 & (1.60\text{e}+03) & 1.05\text{e}+03 & (3.43\text{e}+02) + & 4.60\text{e}+01 & (2.61\text{e}+01) + & 1.15\text{e}+04 & (8.83\text{e}+02) - & 1.15\text{e}+04 & (6.09\text{e}+02) - & 1.17\text{e}+04 & (6.61\text{e}+02) - \\ \textbf{CEC19-MaTSO6-T50} & 7.93\text{e}+03 & (1.60\text{e}+03) & 1.05\text{e}+03 & (3.43\text{e}+02) + & 4.60\text{e}+01 & (2.61\text{e}+01) + & 1.15\text{e}+04 & (8.83\text{e}+02) - & 1.15\text{e}+04 & ($							
$ \begin{array}{c} \textbf{CEC19-MaTSO6-T44} & 8.17\text{e}+03 \ (8.70\text{e}+02) \\ \textbf{CEC19-MaTSO6-T45} & 7.03\text{e}+03 \ (8.70\text{e}+02) \\ \textbf{CEC19-MaTSO6-T45} & 7.03\text{e}+03 \ (9.48\text{e}+02) \\ \textbf{CEC19-MaTSO6-T45} & 7.03\text{e}+03 \ (9.48\text{e}+02) \\ \textbf{CEC19-MaTSO6-T46} & 6.76\text{e}+03 \ (1.23\text{e}+03) \\ \textbf{CEC19-MaTSO6-T46} & 6.76\text{e}+03 \ (1.23\text{e}+03) \\ \textbf{CEC19-MaTSO6-T46} & 9.10\text{e}+03 \ (2.91\text{e}+03) \\ \textbf{CEC19-MaTSO6-T47} & 9.10\text{e}+03 \ (2.91\text{e}+03) \\ \textbf{CEC19-MaTSO6-T48} & 8.09\text{e}+03 \ (9.76\text{e}+02) \\ \textbf{CEC19-MaTSO6-T48} & 8.09\text{e}+03 \ (9.76\text{e}+02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e}+03 \ (8.35\text{e}+02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e}+03 \ (8.35\text{e}+02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e}+03 \ (3.32\text{e}+02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e}+03 \ (3.32\text{e}+02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e}+03 \ (3.36\text{e}+02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e}+03 \ (3.36\text{e}+02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e}+03 \ (3.36\text{e}+02) \\ \textbf{CEC19-MaTSO6-T50} & 7.93\text{e}+03 \ (1.60\text{e}+03) \\ \textbf{CEC19-MaTSO6-T50} & 1.05\text{e}+03 \ (3.36\text{e}+02) \\ \textbf{CEC19-MaTSO6-T50} & 7.93\text{e}+03 \ (1.60\text{e}+03) \\ \textbf{CEC19-MaTSO6-T50} & 1.05\text{e}+03 \ (3.36\text{e}+02) \\ \textbf{CEC19-MaTSO6-T50} & 1.05\text{e}+03 \ (3.43\text{e}+02) \\ CEC19-Ma$							(
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				6.48e+01 (6.50e+01) +	1.12e+04 (8.60e+02) -	2.73e+03 (4.43e+02) +	1.14e+04 (5.28e+02) -
$ \begin{array}{c} \textbf{CEC19-MaTSO6-T46} & 6.76\text{e+}03 \ (1.23\text{e+}03) \\ \textbf{CEC19-MaTSO6-T47} & 9.10\text{e+}03 \ (2.21\text{e+}03) \\ \textbf{CEC19-MaTSO6-T47} & 9.10\text{e+}03 \ (2.21\text{e+}03) \\ \textbf{CEC19-MaTSO6-T49} & 8.09\text{e+}03 \ (9.76\text{e+}02) \\ \textbf{CEC19-MaTSO6-T49} & 8.09\text{e+}03 \ (9.76\text{e+}02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e+}02 \ (3.73\text{e+}02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e+}02 \ (3.73\text{e+}02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e+}03 \ (8.35\text{e+}02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e+}03 \ (8.35\text{e+}02) \\ \textbf{CEC19-MaTSO6-T49} & 8.08\text{e+}03 \ (3.72\text{e+}02) \\ \textbf{CEC19-MaTSO6-T50} & 7.93\text{e+}03 \ (1.60\text{e+}03) \\ CEC19-Ma$							(,
$ \begin{array}{c} \textbf{CEC19-MaTSO6-T47} & 9.10\text{e}+03 \ (2.91\text{e}+03) & 9.84\text{e}+02 \ (3.73\text{e}+02) + & 8.07\text{e}+01 \ (7.19\text{e}+01) + & 1.29\text{e}+04 \ (6.58\text{e}+02) - & 2.69\text{e}+03 \ (4.39\text{e}+02) + & 1.32\text{e}+04 \ (6.18\text{e}+02) - & 1.20\text{e}+04 \ (6.29\text{e}+02) + & 1.$							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CEC19-MaTSO6-T46		1.04e+03 (3.30e+02) +	6.32e+01 (2.71e+01) +	1.06e+04 (9.55e+02) -	1.06e+04 (9.57e+02) -	1.06e+04 (9.12e+02) -
$\frac{\text{CEC19-MaTSO6-T49}}{\text{CEC19-MaTSO6-T50}} \begin{array}{lll} 8.08\text{e+03} & (8.35\text{e+02}) & 1.08\text{e+03} & (3.72\text{e+02}) + & 1.31\text{e+02} & (1.46\text{e+02}) + & 1.16\text{e+04} & (6.25\text{e+02}) - & 2.53\text{e+03} & (3.87\text{e+02}) + & 1.10\text{e+04} & (8.43\text{e+02}) - & 1.10\text{e+04}$							
$\frac{\text{CEC19-MaTSO6-T50}}{\text{CEC19-MaTSO6-T50}} \frac{7.93\text{e+}03}{3.43\text{e+}02)} \frac{1.05\text{e+}03}{3.43\text{e+}02)} + \frac{4.60\text{e+}01}{4.60\text{e+}01} \cdot \frac{2.61\text{e+}01}{4.60\text{e+}01} + \frac{1.15\text{e+}04}{4.8.83\text{e+}02)} - \frac{1.18\text{e+}04}{6.90\text{e+}02)} - \frac{1.17\text{e+}04}{6.61\text{e+}02)} - \frac{1.17\text{e+}04}{6.61e$			1.01e+03 (4.06e+02) +	7.32e+01 (6.61e+01) +	(,	1.20e+04 (6.29e+02) -	1.15e+04 (7.60e+02) -
+/-/= Base 50/0/0 50/0/0 0/50/0 25/25/0 0/50/0	CEC19-MaTSO6-T50	7.93e+03 (1.60e+03)	1.05e+03 (3.43e+02) +	4.60e+01 (2.61e+01) +	1.15e+04 (8.83e+02) -	1.18e+04 (6.90e+02) -	1.17e+04 (6.61e+02) -
	+/-/=	Base	50/0/0	50/0/0	0/50/0	25/25/0	0/50/0

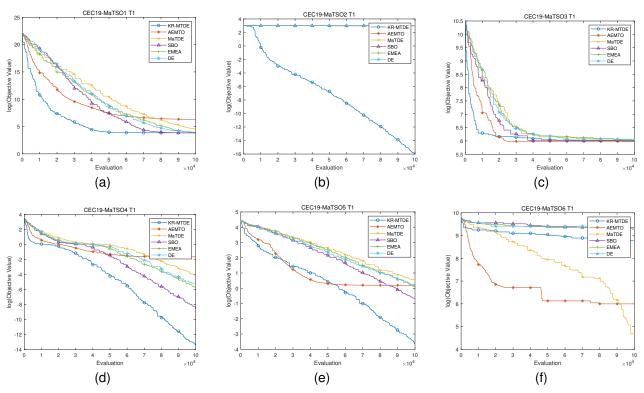


Fig. S2. Average convergence trends of six compared methods, i.e., KR-MTDE, AEMTO, MaTDE, SBO, EMEA, and single-tasking DE on CEC19-MaTSO.

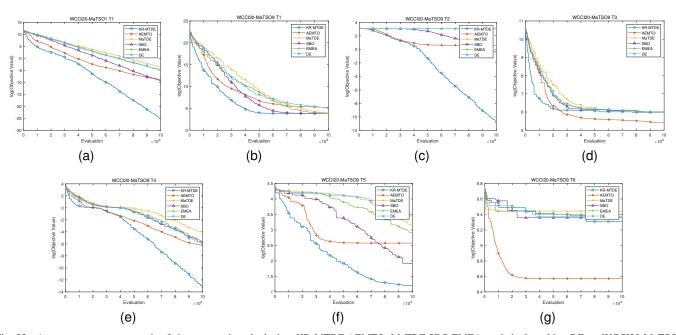


Fig. S3. Average convergence trends of six compared methods, i.e., KR-MTDE, AEMTO, MaTDE, SBO, EMEA, and single-tasking DE on WCC120-MaTSO.

TABLE S12

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO1 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO1 IN TEST SUITE 4.

D1.1	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
Problem WCCI20-MaTSO1-T1	3.72e-11 (2.53e-11)	6.04e-02 (9.73e-02) -	2.35e-02 (1.38e-02) -	1.34e-04 (8.33e-05) -	5.18e-03 (2.95e-03) -	6.69e-03 (3.49e-03) -
WCCI20-MaTSO1-T1	6.75e-11 (6.94e-11)	7.76e-01 (3.20e+00) -	2.04e-02 (1.08e-02) -	1.11e-02 (3.72e-02) -	5.12e-03 (2.93e-03) -	5.47e-03 (2.72e-03) -
WCCI20-MaTSO1-12 WCCI20-MaTSO1-T3	1.10e-11 (9.96e-12)	1.81e-01 (3.20e+00) -	2.04e-02 (1.08e-02) - 2.17e-02 (9.55e-03) -			
WCCI20-MaTSO1-13	3.30e-11 (5.22e-11)	3.28e-01 (8.62e-01) -	2.17e-02 (9.55e-03) -	5.48e-03 (8.10e-03) - 4.52e-03 (5.56e-03) -	5.18e-03 (2.35e-03) - 4.68e-03 (2.41e-03) -	5.41e-03 (2.49e-03) - 4.91e-03 (2.86e-03) -
WCCI20-MaTSO1-T5	3.17e-11 (1.84e-11)	5.42e-01 (1.28e+00) -	2.09e-02 (7.98e-03) -	2.71e-03 (2.01e-03) -	5.36e-03 (2.18e-03) -	4.92e-03 (2.00e-03) -
WCCI20-MaTSO1-T6	3.25e-11 (2.01e-11)	7.41e-02 (1.98e-01) -	2.35e-02 (1.44e-02) -	3.09e-03 (1.59e-03) -	5.85e-03 (2.26e-03) -	5.45e-03 (2.09e-03) -
WCCI20-MaTSO1-T7	6.24e-11 (4.64e-11)	1.35e-01 (3.53e-01) -	2.36e-02 (1.17e-02) -	2.81e-03 (2.31e-03) -	5.49e-03 (1.94e-03) -	5.48e-03 (2.81e-03) -
WCCI20-MaTSO1-T8	6.63e-11 (7.10e-11)	1.80e-01 (6.55e-01) -	2.65e-02 (1.09e-02) -	6.59e-03 (1.33e-02) -	5.67e-03 (2.59e-03) -	5.21e-03 (2.95e-03) -
WCCI20-MaTSO1-T9	1.17e-11 (6.52e-12)	1.79e-01 (4.57e-01) -	2.64e-02 (1.15e-02) -	4.49e-03 (5.98e-03) -	4.94e-03 (2.43e-03) -	5.40e-03 (2.45e-03) -
WCCI20-MaTSO1-T10	1.24e-11 (1.74e-11)	2.61e-01 (6.80e-01) -	2.23e-02 (1.02e-02) -	3.62e-03 (3.99e-03) -	5.26e-03 (2.48e-03) -	4.78e-03 (1.91e-03) -
WCCI20-MaTSO1-T11	1.17e-10 (1.37e-10)	1.57e-01 (5.18e-01) -	2.02e-02 (9.59e-03) -	4.72e-03 (3.78e-03) -	6.08e-03 (2.52e-03) -	5.19e-03 (2.34e-03) -
WCCI20-MaTSO1-T12	6.63e-11 (4.13e-11)	2.27e-01 (4.19e-01) -	2.60e-02 (1.07e-02) -	3.04e-03 (2.53e-03) -	4.93e-03 (3.32e-03) -	5.91e-03 (2.53e-03) -
WCCI20-MaTSO1-T13	3.57e-11 (2.89e-11)	4.58e-01 (1.15e+00) -	1.87e-02 (8.14e-03) -	2.92e-03 (2.06e-03) -	4.73e-03 (1.60e-03) -	5.41e-03 (2.37e-03) -
WCCI20-MaTSO1-T14	7.70e-11 (4.53e-11)	3.97e-01 (1.35e+00) -	2.08e-02 (1.03e-02) -	3.22e-03 (1.74e-03) -	5.97e-03 (3.29e-03) -	5.02e-03 (2.47e-03) -
WCCI20-MaTSO1-T15	4.53e-11 (3.33e-11)	5.16e-01 (1.85e+00) -	2.62e-02 (1.09e-02) -	5.00e-03 (4.69e-03) -	5.20e-03 (2.62e-03) -	4.84e-03 (2.43e-03) -
WCCI20-MaTSO1-T16	8.96e-11 (1.82e-10)	3.92e-01 (1.26e+00) -	1.90e-02 (1.10e-02) -	3.19e-03 (2.29e-03) -	5.03e-03 (2.23e-03) -	4.97e-03 (1.96e-03) -
WCCI20-MaTSO1-T17	3.26e-11 (7.80e-11)	2.12e-01 (7.49e-01) -	1.83e-02 (8.31e-03) -	5.76e-03 (8.18e-03) -	4.94e-03 (1.43e-03) -	5.80e-03 (3.09e-03) -
WCCI20-MaTSO1-T18	2.80e-11 (2.52e-11)	1.13e-01 (1.54e-01) -	2.14e-02 (9.38e-03) -	3.48e-03 (2.11e-03) -	5.19e-03 (2.72e-03) -	5.24e-03 (2.37e-03) -
WCCI20-MaTSO1-T19	1.42e-11 (1.38e-11)	1.30e-01 (2.96e-01) -	2.02e-02 (8.69e-03) -	4.58e-03 (7.05e-03) -	5.92e-03 (2.67e-03) -	4.76e-03 (2.11e-03) -
WCCI20-MaTSO1-T20	2.82e-11 (1.68e-11)	4.31e-01 (8.20e-01) -	1.99e-02 (8.10e-03) -	5.52e-03 (5.47e-03) -	4.24e-03 (1.81e-03) -	4.57e-03 (1.85e-03) -
WCCI20-MaTSO1-T21	3.45e-11 (2.16e-11)	2.28e-01 (3.68e-01) -	1.98e-02 (7.81e-03) -	5.19e-03 (4.90e-03) -	5.32e-03 (2.13e-03) -	5.23e-03 (2.31e-03) -
WCCI20-MaTSO1-T22	2.59e-11 (1.68e-11)	6.37e-01 (1.90e+00) -	1.92e-02 (7.84e-03) -	2.90e-03 (1.69e-03) -	4.81e-03 (1.90e-03) -	4.79e-03 (2.57e-03) -
WCCI20-MaTSO1-T23	1.34e-11 (1.41e-11)	4.61e-01 (1.34e+00) -	2.10e-02 (7.81e-03) -	5.66e-03 (6.59e-03) -	5.05e-03 (2.39e-03) -	4.63e-03 (2.74e-03) -
WCCI20-MaTSO1-T24	3.02e-11 (1.90e-11)	6.95e-02 (1.18e-01) -	1.95e-02 (1.15e-02) -	2.99e-03 (1.92e-03) -	5.52e-03 (2.09e-03) -	5.11e-03 (1.85e-03) -
WCCI20-MaTSO1-T25	1.71e-10 (3.88e-10)	1.05e-01 (2.76e-01) -	2.06e-02 (1.25e-02) -	3.06e-03 (2.04e-03) -	6.01e-03 (3.75e-03) -	5.54e-03 (2.87e-03) -
WCCI20-MaTSO1-T26	1.94e-11 (1.70e-11)	2.06e-01 (7.03e-01) -	1.84e-02 (9.27e-03) -	3.92e-03 (3.25e-03) -	5.54e-03 (2.52e-03) -	4.94e-03 (2.47e-03) -
WCCI20-MaTSO1-T27	1.43e-11 (1.54e-11)	1.82e-02 (4.33e-02) -	1.95e-02 (9.58e-03) -	3.02e-03 (2.71e-03) -	5.16e-03 (2.64e-03) -	4.54e-03 (1.55e-03) -
WCCI20-MaTSO1-T28	6.47e-11 (5.35e-11)	1.07e+00 (3.47e+00) -	2.85e-02 (2.37e-02) -	4.31e-03 (2.87e-03) -	5.30e-03 (2.05e-03) -	5.86e-03 (2.58e-03) -
WCCI20-MaTSO1-T29	2.01e-11 (1.45e-11)	1.81e-01 (4.64e-01) -	2.32e-02 (1.33e-02) -	5.97e-03 (7.71e-03) -	6.30e-03 (2.33e-03) -	4.12e-03 (1.89e-03) -
WCCI20-MaTSO1-T30	4.82e-11 (5.70e-11)	7.00e-02 (1.27e-01) -	1.88e-02 (9.90e-03) -	3.65e-03 (3.87e-03) -	5.77e-03 (2.98e-03) -	5.02e-03 (2.59e-03) -
WCCI20-MaTSO1-T31	1.99e-11 (2.12e-11)	6.10e-02 (8.66e-02) -	1.86e-02 (9.29e-03) -	4.06e-03 (4.43e-03) -	6.26e-03 (2.76e-03) -	4.50e-03 (1.21e-03) -
WCCI20-MaTSO1-T32	3.36e-11 (4.26e-11)	1.66e-01 (3.01e-01) -	1.97e-02 (7.62e-03) -	8.71e-03 (2.07e-02) -	5.16e-03 (2.58e-03) -	5.94e-03 (2.77e-03) -
WCCI20-MaTSO1-T33	3.44e-11 (2.69e-11)	2.22e-01 (5.40e-01) -	1.99e-02 (8.16e-03) -	2.70e-03 (1.77e-03) -	4.34e-03 (1.28e-03) -	4.87e-03 (3.00e-03) -
WCCI20-MaTSO1-T34	3.20e-11 (3.59e-11)	1.10e+00 (3.96e+00) -	1.99e-02 (6.71e-03) -	2.92e-03 (1.31e-03) -	5.64e-03 (2.86e-03) -	5.30e-03 (2.03e-03) -
WCCI20-MaTSO1-T35	8.70e-11 (6.89e-11)	4.69e-02 (8.66e-02) -	2.59e-02 (1.50e-02) -	2.91e-03 (1.46e-03) -	5.90e-03 (2.71e-03) -	5.38e-03 (2.26e-03) -
WCCI20-MaTSO1-T36	2.48e-12 (2.04e-12)	1.03e-01 (2.41e-01) -	1.94e-02 (6.03e-03) -	4.25e-03 (3.99e-03) -	5.31e-03 (1.97e-03) -	4.60e-03 (1.83e-03) -
WCCI20-MaTSO1-T37	3.88e-11 (6.41e-11)	1.35e-01 (2.28e-01) -	2.27e-02 (1.12e-02) -	5.55e-03 (8.94e-03) -	6.10e-03 (2.54e-03) -	6.31e-03 (3.16e-03) -
WCCI20-MaTSO1-T38	2.72e-11 (1.77e-11)	2.05e-01 (3.42e-01) -	2.22e-02 (9.13e-03) -	2.56e-03 (1.10e-03) -	5.99e-03 (2.75e-03) -	4.93e-03 (1.66e-03) -
WCCI20-MaTSO1-T39	7.04e-11 (4.74e-11)	4.36e-01 (6.69e-01) -	2.19e-02 (8.39e-03) -	2.95e-03 (1.96e-03) -	5.61e-03 (2.88e-03) -	4.26e-03 (1.63e-03) -
WCCI20-MaTSO1-T39	1.73e-10 (1.27e-10)	1.85e-01 (4.56e-01) -	2.20e-02 (1.19e-02) -	4.98e-03 (6.64e-03) -	5.29e-03 (2.03e-03) -	5.23e-03 (2.88e-03) -
WCCI20-MaTSO1-T40	2.32e-11 (2.93e-11)	2.74e-01 (1.03e+00) -	2.31e-02 (1.16e-02) -	4.72e-03 (5.56e-03) -	5.45e-03 (2.80e-03) -	5.32e-03 (2.18e-03) -
WCCI20-MaTSO1-T41	1.45e-11 (1.26e-11)	9.52e-01 (3.32e+00) -	2.15e-02 (1.10e-02) -	3.60e-03 (2.37e-03) -	5.10e-03 (2.43e-03) -	4.61e-03 (1.43e-03) -
WCCI20-MaTSO1-T42	3.18e-11 (3.25e-11)	4.23e-02 (7.69e-02) -	2.13e-02 (8.36e-03) -	3.06e-03 (2.37e-03) -	5.10e-03 (2.43e-03) -	4.87e-03 (1.43e-03) -
WCCI20-MaTSO1-T44	9.17e-11 (7.25e-11)	6.22e-02 (1.63e-01) -	2.23e-02 (1.48e-02) - 2.23e-02 (9.13e-03) -	4.63e-03 (4.21e-03) -	4.97e-03 (2.42e-03) -	4.54e-03 (1.85e-03) -
WCCI20-MaTSO1-T44	4.92e-11 (3.70e-11)	2.61e-01 (4.98e-01) -	1.86e-02 (9.13e-03) -	5.13e-03 (6.21e-03) -	4.97e-03 (2.42e-03) -	5.47e-03 (3.23e-03) -
WCCI20-MaTSO1-T46	9.79e-11 (7.53e-11)	3.33e-02 (8.65e-02) -	2.17e-02 (7.32e-03) -	5.13e-03 (6.21e-03) - 5.30e-03 (8.27e-03) -	5.84e-03 (2.44e-03) -	5.04e-03 (2.04e-03) -
WCCI20-MaTSO1-T46	6.38e-11 (6.76e-11)	6.25e-02 (8.63e-02) -	2.17e-02 (7.32e-03) -	7.02e-03 (1.43e-02) -	4.52e-03 (2.44e-03) -	5.80e-03 (2.26e-03) -
WCCI20-MaTSO1-147 WCCI20-MaTSO1-T48	6.38e-11 (6.76e-11) 4.14e-11 (2.73e-11)	1.66e-01 (1.61e+00) -	2.00e-02 (6.98e-03) - 1.77e-02 (8.59e-03) -	7.02e-03 (1.43e-02) - 5.01e-03 (5.84e-03) -	4.52e-03 (1.68e-03) - 5.22e-03 (1.96e-03) -	5.80e-03 (2.26e-03) - 4.60e-03 (1.80e-03) -
	,	(/	(,			(,
WCCI20-MaTSO1-T49	1.90e-11 (1.80e-11)	5.38e-01 (1.22e+00) -	2.16e-02 (8.93e-03) -	5.10e-03 (6.44e-03) -	5.01e-03 (2.60e-03) -	4.41e-03 (2.11e-03) -
WCCI20-MaTSO1-T50	2.80e-11 (3.04e-11)	2.36e-02 (4.91e-02) -	1.65e-02 (7.86e-03) -	5.44e-03 (8.55e-03) -	5.57e-03 (2.33e-03) -	5.67e-03 (2.54e-03) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO2 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO2 IN TEST SUITE 4.

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Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
WCCI20-MaTSO2-T1	4.76e+01 (5.88e-01)	1.20e+02 (9.94e+01) -	9.69e+01 (6.04e+01) -	6.64e+02 (1.79e+03) -	8.43e+02 (1.82e+03) -	5.79e+02 (1.09e+03) -
WCCI20-MaTSO2-T2	1.06e+02 (4.73e+01)	2.77e+02 (4.52e+02) =	2.73e+02 (2.69e+02) -	6.35e+03 (2.64e+04) -	3.78e+02 (4.51e+02) =	1.11e+03 (1.76e+03) -
WCCI20-MaTSO2-T3	4.77e+01 (7.20e-01)	1.44e+02 (1.11e+02) -	1.61e+02 (1.03e+02) -	2.92e+03 (8.44e+03) -	6.29e+02 (1.66e+03) -	6.79e+02 (1.79e+03) -
WCCI20-MaTSO2-T4	4.73e+01 (1.07e+00)	2.39e+02 (3.14e+02) -	1.12e+02 (1.07e+02) -	7.53e+02 (1.70e+03) -	5.57e+02 (1.08e+03) -	3.83e+02 (6.77e+02) -
WCCI20-MaTSO2-T5	6.02e+01 (2.59e+01)	1.67e+02 (1.44e+02) -	1.92e+02 (1.61e+02) -	4.87e+02 (7.89e+02) -	1.68e+03 (5.11e+03) -	6.84e+02 (1.17e+03) -
WCCI20-MaTSO2-T6	5.11e+01 (1.31e+01)	2.24e+02 (3.27e+02) -	1.07e+02 (1.15e+02) -	5.71e+03 (2.27e+04) -	5.25e+02 (9.35e+02) -	2.58e+02 (4.22e+02) -
WCCI20-MaTSO2-T7	4.77e+01 (4.99e-01)	1.30e+02 (1.05e+02) -	1.64e+02 (1.93e+02) -	9.43e+03 (4.11e+04) -	6.00e+02 (1.54e+03) -	1.28e+03 (1.91e+03) -
WCCI20-MaTSO2-T8	5.69e+01 (2.88e+01)	1.14e+02 (7.99e+01) -	1.21e+02 (8.46e+01) -	9.29e+03 (3.88e+04) -	3.58e+02 (6.20e+02) -	1.59e+02 (1.37e+02) -
WCCI20-MaTSO2-T9	4.78e+01 (8.95e-01)	2.25e+02 (3.58e+02) -	4.04e+02 (5.68e+02) -	1.68e+03 (3.09e+03) -	4.21e+02 (1.02e+03) -	7.46e+02 (1.21e+03) -
WCCI20-MaTSO2-T10	4.75e+01 (7.00e-01)	1.99e+02 (2.78e+02) -	1.85e+02 (2.79e+02) -	3.55e+03 (1.36e+04) -	8.98e+02 (2.18e+03) -	5.36e+02 (9.68e+02) -
WCCI20-MaTSO2-T11	4.78e+01 (7.87e-01)	2.51e+02 (3.21e+02) -	7.06e+01 (4.55e+01) -	5.81e+03 (2.28e+04) -	4.57e+02 (1.58e+03) -	3.96e+02 (8.73e+02) -
WCCI20-MaTSO2-T12	4.84e+01 (6.65e-01)	1.53e+02 (2.01e+02) -	1.48e+02 (1.46e+02) -	2.09e+03 (5.38e+03) -	8.39e+02 (1.47e+03) -	3.43e+02 (8.85e+02) -
WCCI20-MaTSO2-T13	5.13e+01 (1.41e+01)	1.95e+02 (2.29e+02) -	1.76e+02 (2.26e+02) -	3.08e+03 (1.01e+04) -	4.02e+02 (8.31e+02) -	1.61e+02 (2.22e+02) -
WCCI20-MaTSO2-T14	4.76e+01 (7.24e-01)	1.91e+02 (2.28e+02) -	1.19e+02 (1.21e+02) -	3.77e+03 (1.19e+04) -	4.73e+02 (8.79e+02) -	7.02e+02 (1.69e+03) -
WCCI20-MaTSO2-T15	5.75e+01 (2.47e+01)	2.96e+02 (5.09e+02) -	2.40e+02 (2.73e+02) -	1.10e+03 (3.06e+03) -	5.72e+02 (1.37e+03) -	6.77e+02 (1.09e+03) -
WCCI20-MaTSO2-T16	4.77e+01 (9.55e-01)	1.34e+02 (1.23e+02) -	1.69e+02 (3.21e+02) -	4.15e+03 (1.36e+04) -	4.36e+02 (6.47e+02) -	6.59e+02 (1.82e+03) -
WCCI20-MaTSO2-T17	4.78e+01 (7.16e-01)	1.13e+02 (6.80e+01) -	1.10e+02 (1.33e+02) -	5.16e+02 (8.13e+02) -	7.87e+02 (1.44e+03) -	5.07e+02 (1.14e+03) -
WCCI20-MaTSO2-T18	5.10e+01 (1.45e+01)	1.62e+02 (1.63e+02) -	1.57e+02 (1.67e+02) -	1.36e+03 (2.52e+03) -	4.52e+02 (7.54e+02) -	9.01e+02 (1.37e+03) -
WCCI20-MaTSO2-T19	4.75e+01 (4.83e-01)	1.41e+02 (1.04e+02) -	1.01e+02 (1.16e+02) -	7.93e+02 (1.88e+03) -	4.79e+02 (9.71e+02) -	6.76e+02 (1.08e+03) -
WCCI20-MaTSO2-T20	4.80e+01 (9.18e-01)	1.95e+02 (2.49e+02) -	1.26e+02 (1.34e+02) -	1.20e+03 (4.38e+03) -	1.24e+02 (9.67e+01) -	7.35e+02 (1.11e+03) -
WCCI20-MaTSO2-T21	4.79e+01 (7.39e-01)	1.44e+02 (7.36e+01) -	1.21e+02 (1.14e+02) -	3.19e+03 (9.15e+03) -	5.89e+02 (1.16e+03) -	5.64e+02 (1.48e+03) -
WCCI20-MaTSO2-T22	4.73e+01 (7.74e-01)	2.31e+02 (3.07e+02) -	9.45e+01 (9.85e+01) -	6.55e+03 (2.40e+04) -	1.81e+03 (2.57e+03) -	5.67e+02 (1.20e+03) -
WCCI20-MaTSO2-T23	5.39e+01 (1.90e+01)	1.62e+02 (1.55e+02) -	1.49e+02 (1.71e+02) -	9.12e+02 (1.88e+03) -	3.85e+02 (8.95e+02) -	7.06e+02 (1.65e+03) -
WCCI20-MaTSO2-T24	4.75e+01 (8.40e-01)	1.54e+02 (1.40e+02) -	1.25e+02 (1.52e+02) -	3.78e+03 (1.45e+04) -	4.33e+02 (1.05e+03) -	2.22e+02 (2.48e+02) -
WCCI20-MaTSO2-T25	5.07e+01 (1.39e+01)	2.15e+02 (3.83e+02) =	9.28e+01 (9.82e+01) -	5.97e+02 (1.11e+03) -	5.80e+02 (8.73e+02) -	2.85e+02 (4.13e+02) -
WCCI20-MaTSO2-T26	4.80e+01 (6.77e-01)	1.22e+02 (7.61e+01) -	1.01e+02 (1.11e+02) -	5.52e+02 (1.93e+03) -	3.57e+02 (4.90e+02) -	9.82e+02 (2.16e+03) -
WCCI20-MaTSO2-T27	5.42e+01 (1.94e+01)	1.59e+02 (2.27e+02) -	1.29e+02 (7.81e+01) -	1.32e+03 (2.20e+03) -	7.08e+02 (1.04e+03) -	9.37e+02 (1.66e+03) -
WCCI20-MaTSO2-T28	4.81e+01 (5.16e-01)	3.10e+02 (5.96e+02) -	2.17e+02 (3.08e+02) -	4.11e+03 (1.62e+04) -	1.78e+02 (1.94e+02) -	3.72e+02 (6.97e+02) -
WCCI20-MaTSO2-T29	4.76e+01 (6.93e-01)	1.83e+02 (3.23e+02) -	8.86e+01 (5.22e+01) -	3.56e+03 (1.47e+04) -	5.83e+02 (1.37e+03) -	4.79e+02 (9.84e+02) -
WCCI20-MaTSO2-T30	5.43e+01 (1.92e+01)	3.91e+02 (5.96e+02) -	1.70e+02 (1.39e+02) -	1.32e+03 (2.46e+03) -	4.02e+02 (8.73e+02) -	6.75e+02 (1.19e+03) -
WCCI20-MaTSO2-T31	5.12e+01 (1.40e+01)	1.91e+02 (2.60e+02) -	3.13e+02 (5.17e+02) -	2.85e+03 (1.04e+04) -	2.94e+02 (5.23e+02) -	4.57e+02 (7.41e+02) -
WCCI20-MaTSO2-T32	4.77e+01 (6.73e-01)	1.44e+02 (1.30e+02) -	1.52e+02 (8.59e+01) -	7.61e+02 (1.57e+03) -	7.43e+02 (1.42e+03) -	4.07e+02 (7.39e+02) -
WCCI20-MaTSO2-T33	4.80e+01 (6.20e-01)	1.23e+02 (1.06e+02) -	9.40e+01 (6.74e+01) -	1.14e+03 (3.63e+03) -	1.65e+02 (4.05e+02) -	4.82e+02 (1.50e+03) -
WCCI20-MaTSO2-T34	4.76e+01 (8.21e-01)	2.06e+02 (2.69e+02) -	1.38e+02 (1.38e+02) -	5.37e+03 (1.81e+04) -	9.02e+02 (2.36e+03) -	1.41e+03 (3.68e+03) -
WCCI20-MaTSO2-T35	4.76e+01 (6.74e-01)	1.02e+02 (9.63e+01) -	9.82e+01 (6.76e+01) -	5.95e+03 (2.50e+04) -	7.02e+02 (1.56e+03) -	2.53e+02 (4.25e+02) -
WCCI20-MaTSO2-T36	4.75e+01 (1.05e+00)	2.41e+02 (5.37e+02) -	1.34e+02 (1.21e+02) -	5.85e+03 (2.42e+04) -	1.67e+03 (3.83e+03) -	6.64e+02 (1.45e+03) -
WCCI20-MaTSO2-T37	4.78e+01 (7.03e-01)	1.42e+02 (1.84e+02) -	1.32e+02 (1.47e+02) -	1.44e+03 (4.32e+03) -	3.01e+02 (5.71e+02) -	6.00e+02 (1.41e+03) -
WCCI20-MaTSO2-T38	6.39e+01 (3.93e+01)	2.05e+02 (2.74e+02) -	1.47e+02 (1.14e+02) -	9.75e+02 (3.18e+03) -	5.11e+02 (9.82e+02) -	5.37e+02 (8.03e+02) -
WCCI20-MaTSO2-T39	4.74e+01 (6.09e-01)	4.32e+02 (6.33e+02) -	3.36e+02 (4.98e+02) -	3.93e+03 (1.25e+04) -	3.99e+02 (3.85e+02) -	2.10e+02 (2.60e+02) -
WCCI20-MaTSO2-T40	5.10e+01 (1.41e+01)	2.44e+02 (3.66e+02) -	1.95e+02 (3.13e+02) -	4.29e+03 (1.65e+04) -	3.03e+02 (4.43e+02) -	9.72e+02 (2.07e+03) -
WCCI20-MaTSO2-T41	1.21e+02 (8.26e+01)	1.91e+02 (1.67e+02) =	2.17e+02 (2.00e+02) -	1.38e+03 (4.66e+03) -	5.71e+02 (1.56e+03) =	4.98e+02 (1.03e+03) -
WCCI20-MaTSO2-T42	4.82e+01 (7.21e-01)	3.45e+02 (5.19e+02) -	1.12e+02 (1.06e+02) -	1.45e+03 (2.87e+03) -	2.12e+02 (4.31e+02) -	3.93e+02 (8.17e+02) -
WCCI20-MaTSO2-T43	4.78e+01 (8.55e-01)	1.16e+02 (7.72e+01) -	9.61e+01 (1.01e+02) -	4.80e+03 (1.76e+04) -	5.17e+02 (8.39e+02) -	3.04e+02 (2.96e+02) -
WCCI20-MaTSO2-T44	4.79e+01 (9.10e-01)	2.08e+02 (2.81e+02) -	1.35e+02 (8.82e+01) -	1.08e+03 (2.31e+03) -	8.91e+02 (2.20e+03) -	6.15e+02 (1.20e+03) -
WCCI20-MaTSO2-T45	5.93e+01 (2.36e+01)	3.19e+02 (4.66e+02) -	3.18e+02 (4.98e+02) -	4.30e+03 (1.66e+04) -	5.17e+02 (8.19e+02) -	2.26e+02 (3.17e+02) -
WCCI20-MaTSO2-T46	6.54e+01 (3.22e+01)	2.36e+02 (2.42e+02) -	1.22e+02 (8.82e+01) -	5.40e+03 (2.08e+04) -	5.50e+02 (8.20e+02) -	6.01e+02 (9.66e+02) -
WCCI20-MaTSO2-T47	7.70e+01 (3.37e+01)	1.72e+02 (1.69e+02) -	2.35e+02 (3.13e+02) -	1.35e+03 (3.63e+03) -	2.02e+03 (3.61e+03) -	4.83e+02 (8.57e+02) -
WCCI20-MaTSO2-T48	4.71e+01 (9.24e-01)	3.55e+02 (5.90e+02) -	2.63e+02 (4.43e+02) -	1.66e+03 (2.89e+03) -	3.71e+02 (6.80e+02) -	1.05e+02 (9.49e+01) -
WCCI20-MaTSO2-T49	4.76e+01 (1.04e+00)	2.63e+02 (4.37e+02) -	2.38e+02 (3.29e+02) -	4.80e+03 (1.69e+04) -	3.09e+02 (6.44e+02) -	7.53e+02 (1.70e+03) -
WCCI20-MaTSO2-T50	4.80e+01 (6.65e-01)	1.30e+02 (1.14e+02) -	1.87e+02 (2.84e+02) -	8.61e+02 (2.33e+03) -	1.88e+02 (2.01e+02) -	6.11e+02 (1.05e+03) -
+/-/=	Base	0/47/3	0/50/0	0/50/0	0/48/2	0/50/0
	I	1	l .	I.	I.	L

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO3 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO3 IN TEST SUITE 4.

Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
WCCI20-MaTSO3-T1	3.85e+02 (2.08e+01)	1.95e+02 (1.15e+02) +	4.15e+02 (1.46e+01) -	4.01e+02 (1.13e+01) -	4.08e+02 (1.58e+01) -	4.14e+02 (1.35e+01) -
WCCI20-MaTSO3-T2	3.84e+02 (1.66e+01)	1.84e+02 (1.01e+02) +	4.13e+02 (1.91e+01) -	4.08e+02 (1.58e+01) -	4.13e+02 (1.31e+01) -	4.05e+02 (1.75e+01) -
WCCI20-MaTSO3-T3	3.85e+02 (2.04e+01)	1.68e+02 (7.48e+01) +	4.18e+02 (1.95e+01) -	4.05e+02 (1.96e+01) -	4.08e+02 (1.91e+01) -	4.08e+02 (2.01e+01) -
WCCI20-MaTSO3-T4	3.89e+02 (1.58e+01)	1.93e+02 (1.11e+02) +	4.09e+02 (1.66e+01) -	4.00e+02 (1.93e+01) =	3.98e+02 (1.51e+01) =	4.11e+02 (1.51e+01) -
WCCI20-MaTSO3-T5	3.91e+02 (1.72e+01)	1.85e+02 (9.66e+01) +	4.07e+02 (1.24e+01) -	4.01e+02 (2.32e+01) =	4.03e+02 (1.75e+01) -	4.07e+02 (1.51e+01) -
WCCI20-MaTSO3-T6	3.84e+02 (1.66e+01)	2.01e+02 (1.15e+02) +	4.10e+02 (1.52e+01) -	3.99e+02 (1.91e+01) -	4.11e+02 (1.81e+01) -	4.12e+02 (1.37e+01) -
WCCI20-MaTSO3-T7	3.87e+02 (1.76e+01)	1.55e+02 (7.11e+01) +	4.14e+02 (1.76e+01) -	4.00e+02 (1.97e+01) -	4.12e+02 (1.91e+01) -	4.11e+02 (1.14e+01) -
WCCI20-MaTSO3-T8	3.86e+02 (1.49e+01)	1.92e+02 (1.24e+02) +	4.13e+02 (1.69e+01) -	4.05e+02 (1.73e+01) -	4.08e+02 (8.95e+00) -	4.01e+02 (2.29e+01) -
WCCI20-MaTSO3-T9	3.84e+02 (1.40e+01)	1.74e+02 (1.04e+02) +	4.13e+02 (1.24e+01) -	4.02e+02 (1.32e+01) -	4.10e+02 (1.78e+01) -	4.12e+02 (1.48e+01) -
WCCI20-MaTSO3-T10	3.87e+02 (1.34e+01)	1.96e+02 (1.05e+02) +	4.17e+02 (1.56e+01) -	4.02e+02 (2.24e+01) -	4.09e+02 (1.68e+01) -	4.07e+02 (1.46e+01) -
WCCI20-MaTSO3-T11	3.78e+02 (1.79e+01)	1.73e+02 (1.08e+02) +	4.12e+02 (1.83e+01) -	4.06e+02 (1.41e+01) -	4.10e+02 (1.47e+01) -	4.03e+02 (1.91e+01) -
WCCI20-MaTSO3-T12	3.87e+02 (8.58e+00)	1.71e+02 (7.73e+01) +	4.11e+02 (1.81e+01) -	4.05e+02 (1.20e+01) -	4.14e+02 (1.81e+01) -	4.02e+02 (1.24e+01) -
WCCI20-MaTSO3-T13	3.92e+02 (1.75e+01)	2.02e+02 (1.03e+02) +	4.13e+02 (1.94e+01) -	3.97e+02 (1.81e+01) =	4.11e+02 (1.44e+01) -	4.08e+02 (1.42e+01) -
WCCI20-MaTSO3-T14	3.85e+02 (2.13e+01)	1.88e+02 (1.03e+02) +	4.09e+02 (2.14e+01) -	4.07e+02 (1.46e+01) -	4.14e+02 (1.45e+01) -	4.06e+02 (1.28e+01) -
WCCI20-MaTSO3-T15	3.86e+02 (1.39e+01)	2.26e+02 (9.11e+01) +	4.10e+02 (1.38e+01) -	4.02e+02 (1.82e+01) -	4.09e+02 (1.49e+01) -	4.04e+02 (1.74e+01) -
WCCI20-MaTSO3-T16	3.89e+02 (1.06e+01)	2.19e+02 (1.09e+02) +	4.04e+02 (1.55e+01) -	4.06e+02 (1.83e+01) -	4.08e+02 (1.45e+01) -	4.11e+02 (1.34e+01) -
WCCI20-MaTSO3-T17	3.89e+02 (1.22e+01)	1.94e+02 (8.57e+01) +	4.10e+02 (1.60e+01) -	4.02e+02 (1.60e+01) -	4.14e+02 (1.90e+01) -	4.06e+02 (1.97e+01) -
WCCI20-MaTSO3-T18	3.78e+02 (1.48e+01)	1.96e+02 (1.12e+02) +	4.10e+02 (1.93e+01) -	4.03e+02 (1.34e+01) -	4.05e+02 (2.22e+01) -	4.01e+02 (1.72e+01) -
WCCI20-MaTSO3-T19	3.89e+02 (1.90e+01)	1.68e+02 (1.21e+02) +	4.09e+02 (1.66e+01) -	4.06e+02 (1.58e+01) -	4.00e+02 (1.40e+01) -	4.08e+02 (1.20e+01) -
WCCI20-MaTSO3-T20	3.83e+02 (1.85e+01)	2.11e+02 (9.75e+01) +	4.13e+02 (1.45e+01) -	4.06e+02 (2.09e+01) -	4.10e+02 (1.39e+01) -	4.04e+02 (2.16e+01) -
WCCI20-MaTSO3-T21	3.85e+02 (1.07e+01)	1.78e+02 (1.05e+02) +	4.15e+02 (1.86e+01) -	4.07e+02 (1.54e+01) -	4.07e+02 (2.51e+01) -	4.03e+02 (1.99e+01) -
WCCI20-MaTSO3-T22	3.87e+02 (1.77e+01)	1.89e+02 (9.36e+01) +	4.14e+02 (1.61e+01) -	4.06e+02 (1.55e+01) -	4.02e+02 (1.98e+01) -	4.09e+02 (1.56e+01) -
WCCI20-MaTSO3-T23	3.91e+02 (1.47e+01)	2.05e+02 (1.04e+02) +	4.11e+02 (1.53e+01) -	4.01e+02 (1.26e+01) -	4.14e+02 (1.52e+01) -	4.05e+02 (2.47e+01) -
WCCI20-MaTSO3-T24	3.87e+02 (1.69e+01)	2.11e+02 (1.27e+02) +	4.05e+02 (2.01e+01) -	4.06e+02 (1.58e+01) -	4.08e+02 (1.38e+01) -	4.09e+02 (1.65e+01) -
WCCI20-MaTSO3-T25	3.86e+02 (1.13e+01)	1.86e+02 (1.08e+02) +	4.08e+02 (1.65e+01) -	4.08e+02 (1.42e+01) -	4.06e+02 (1.79e+01) -	4.09e+02 (1.74e+01) -
WCCI20-MaTSO3-T26	3.80e+02 (1.85e+01)	1.83e+02 (1.10e+02) +	4.15e+02 (1.28e+01) -	4.03e+02 (1.60e+01) -	4.15e+02 (1.41e+01) -	4.09e+02 (1.62e+01) -
WCCI20-MaTSO3-T27	3.87e+02 (1.66e+01)	1.92e+02 (1.11e+02) +	4.07e+02 (2.02e+01) -	4.04e+02 (2.21e+01) -	4.08e+02 (1.91e+01) -	4.01e+02 (1.70e+01) -
WCCI20-MaTSO3-T28	3.82e+02 (1.73e+01)	1.91e+02 (1.04e+02) +	4.15e+02 (1.84e+01) -	4.02e+02 (1.83e+01) -	4.09e+02 (1.48e+01) -	4.08e+02 (1.50e+01) -
WCCI20-MaTSO3-T29	3.87e+02 (1.48e+01)	1.84e+02 (9.02e+01) +	4.17e+02 (1.34e+01) -	4.07e+02 (1.36e+01) -	4.04e+02 (1.39e+01) -	4.06e+02 (1.25e+01) -
WCCI20-MaTSO3-T30	3.84e+02 (1.75e+01)	1.78e+02 (8.21e+01) +	4.06e+02 (2.13e+01) -	4.04e+02 (1.35e+01) -	4.07e+02 (1.39e+01) -	4.14e+02 (1.87e+01) -
WCCI20-MaTSO3-T31	3.82e+02 (1.59e+01)	2.14e+02 (1.02e+02) +	4.12e+02 (1.21e+01) -	4.07e+02 (1.96e+01) -	4.04e+02 (1.85e+01) -	4.08e+02 (1.46e+01) -
WCCI20-MaTSO3-T32	3.87e+02 (1.42e+01)	2.15e+02 (1.11e+02) +	4.12e+02 (1.92e+01) -	4.08e+02 (2.09e+01) -	4.11e+02 (1.81e+01) -	4.07e+02 (1.85e+01) -
WCCI20-MaTSO3-T33	3.86e+02 (2.52e+01)	1.76e+02 (9.48e+01) +	4.09e+02 (2.21e+01) -	4.03e+02 (1.81e+01) -	4.05e+02 (1.58e+01) -	4.08e+02 (1.81e+01) -
WCCI20-MaTSO3-T34	3.83e+02 (1.39e+01)	1.60e+02 (1.05e+02) +	4.15e+02 (1.52e+01) -	4.04e+02 (1.72e+01) -	4.07e+02 (1.53e+01) -	4.14e+02 (1.47e+01) -
WCCI20-MaTSO3-T35	3.90e+02 (1.52e+01)	2.03e+02 (1.00e+02) +	4.13e+02 (1.81e+01) -	4.00e+02 (1.97e+01) -	4.01e+02 (1.96e+01) =	4.11e+02 (1.73e+01) -
WCCI20-MaTSO3-T36	3.83e+02 (1.89e+01)	1.80e+02 (1.10e+02) +	4.14e+02 (1.38e+01) -	4.03e+02 (1.71e+01) -	4.12e+02 (1.72e+01) -	4.05e+02 (1.48e+01) -
WCCI20-MaTSO3-T37	3.87e+02 (1.32e+01)	1.84e+02 (1.17e+02) +	4.14e+02 (1.45e+01) -	4.13e+02 (1.41e+01) -	4.14e+02 (1.60e+01) -	4.12e+02 (1.30e+01) -
WCCI20-MaTSO3-T38	3.86e+02 (1.71e+01)	1.81e+02 (9.03e+01) +	4.10e+02 (2.05e+01) -	3.97e+02 (2.17e+01) -	3.97e+02 (2.11e+01) -	4.05e+02 (1.38e+01) -
WCCI20-MaTSO3-T39	3.87e+02 (1.05e+01)	2.06e+02 (1.32e+02) +	4.06e+02 (1.98e+01) -	4.13e+02 (1.17e+01) -	4.10e+02 (1.32e+01) -	4.03e+02 (1.56e+01) -
WCCI20-MaTSO3-T40	3.85e+02 (1.74e+01)	1.90e+02 (7.75e+01) +	4.15e+02 (1.40e+01) -	3.99e+02 (2.27e+01) -	4.06e+02 (2.08e+01) -	4.04e+02 (1.92e+01) -
WCCI20-MaTSO3-T41	3.88e+02 (1.08e+01)	1.85e+02 (1.15e+02) +	4.16e+02 (1.81e+01) -	3.98e+02 (2.13e+01) -	4.03e+02 (1.94e+01) -	4.03e+02 (1.76e+01) -
WCCI20-MaTSO3-T42	3.80e+02 (1.26e+01)	2.07e+02 (9.49e+01) +	4.10e+02 (1.61e+01) -	4.03e+02 (1.78e+01) -	4.13e+02 (1.24e+01) -	4.04e+02 (1.75e+01) -
WCCI20-MaTSO3-T43	3.84e+02 (1.57e+01)	1.69e+02 (8.52e+01) +	4.06e+02 (1.97e+01) -	4.05e+02 (1.65e+01) -	4.00e+02 (1.71e+01) -	4.07e+02 (1.53e+01) -
WCCI20-MaTSO3-T44	3.79e+02 (1.34e+01)	1.96e+02 (1.19e+02) +	4.09e+02 (1.23e+01) -	4.05e+02 (1.81e+01) -	4.10e+02 (1.87e+01) -	4.08e+02 (1.64e+01) -
WCCI20-MaTSO3-T45	3.81e+02 (1.30e+01)	1.63e+02 (1.09e+02) +	4.16e+02 (1.25e+01) -	4.03e+02 (1.53e+01) -	4.04e+02 (1.38e+01) -	4.02e+02 (1.30e+01) -
WCCI20-MaTSO3-T46	3.83e+02 (1.39e+01)	1.97e+02 (9.96e+01) +	4.17e+02 (2.11e+01) -	4.09e+02 (1.23e+01) -	4.06e+02 (2.08e+01) -	4.09e+02 (1.60e+01) -
WCCI20-MaTSO3-T47	3.86e+02 (1.73e+01)	2.06e+02 (1.01e+02) +	4.12e+02 (1.79e+01) -	4.03e+02 (1.47e+01) -	4.05e+02 (2.40e+01) -	4.10e+02 (1.49e+01) -
WCCI20-MaTSO3-T48	3.88e+02 (1.88e+01)	2.11e+02 (1.03e+02) +	4.12e+02 (2.16e+01) -	3.94e+02 (2.20e+01) =	4.18e+02 (1.34e+01) -	4.03e+02 (1.77e+01) -
WCCI20-MaTSO3-T49	3.84e+02 (1.64e+01)	1.82e+02 (1.09e+02) +	4.13e+02 (1.38e+01) -	4.04e+02 (1.75e+01) -	4.07e+02 (1.67e+01) -	4.15e+02 (9.35e+00) -
WCCI20-MaTSO3-T50	3.86e+02 (1.29e+01)	1.86e+02 (1.08e+02) +	4.13e+02 (1.25e+01) -	4.09e+02 (1.79e+01) -	4.10e+02 (1.37e+01) -	4.10e+02 (1.46e+01) -
+/-/=	Base	50/0/0	0/50/0	0/46/4	0/48/2	0/50/0

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO4 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO4 IN TEST SUITE 4.

Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
WCCI20-MaTSO4-T1	8.70e-11 (1.03e-10)	4.58e+00 (1.28e+01) -	2.73e-02 (9.32e-03) -	4.49e-05 (2.42e-05) -	5.10e-03 (2.12e-03) -	4.18e-03 (1.39e-03) -
WCCI20-MaTSO4-T2	6.32e+01 (6.74e+01)	1.45e+02 (1.24e+02) -	3.55e+02 (7.16e+02) -	1.55e+02 (1.98e+02) -	5.39e+02 (1.59e+03) -	9.20e+02 (1.73e+03) -
WCCI20-MaTSO4-T3	6.36e-06 (3.24e-06)	2.14e+00 (8.18e-01) -	1.65e-01 (7.19e-02) -	5.06e-02 (2.55e-02) -	6.35e+00 (6.82e+00) -	5.94e+00 (6.46e+00) -
WCCI20-MaTSO4-T4	2.03e-10 (1.73e-10)	1.28e+00 (3.02e+00) -	2.43e-02 (1.10e-02) -	2.29e-03 (1.37e-03) -	4.95e-03 (2.57e-03) -	5.09e-03 (1.77e-03) -
WCCI20-MaTSO4-T5	4.81e+01 (6.77e-01)	2.18e+02 (1.86e+02) -	5.22e+02 (1.09e+03) -	5.29e+02 (1.38e+03) -	3.72e+02 (7.80e+02) -	2.48e+02 (4.90e+02) -
WCCI20-MaTSO4-T6	5.88e-06 (4.17e-06)	2.03e+00 (7.83e-01) -	1.70e-01 (6.07e-02) -	4.99e-02 (2.89e-02) -	9.19e+00 (7.40e+00) -	7.85e+00 (7.40e+00) -
WCCI20-MaTSO4-T7	5.61e-10 (7.61e-10)	1.00e+01 (3.45e+01) -	2.55e-02 (1.03e-02) -	2.89e-03 (1.98e-03) -	5.42e-03 (2.38e-03) -	4.77e-03 (1.78e-03) -
WCCI20-MaTSO4-T8	6.36e+01 (3.22e+01)	6.01e+02 (9.25e+02) -	1.09e+03 (1.92e+03) -	5.88e+02 (9.89e+02) -	7.10e+02 (1.36e+03) -	5.94e+02 (1.53e+03) -
WCCI20-MaTSO4-T9	7.99e-06 (3.66e-06)	2.50e+00 (7.31e-01) -	1.84e-01 (7.75e-02) -	8.11e-02 (6.08e-02) -	7.02e+00 (6.77e+00) -	1.16e+01 (8.88e+00) -
WCCI20-MaTSO4-T10	1.52e-10 (2.27e-10)	2.01e+00 (7.05e+00) -	3.29e-02 (1.41e-02) -	3.03e-03 (2.93e-03) -	5.23e-03 (2.47e-03) -	4.74e-03 (2.73e-03) -
WCCI20-MaTSO4-T11	4.79e+01 (8.25e-01)	2.30e+02 (2.09e+02) -	3.92e+02 (1.26e+03) -	4.04e+02 (8.16e+02) -	6.92e+02 (1.31e+03) -	4.06e+02 (7.77e+02) -
WCCI20-MaTSO4-T12	1.14e-05 (7.83e-06)	2.20e+00 (4.15e-01) -	1.63e-01 (6.17e-02) -	6.30e-02 (5.20e-02) -	8.11e+00 (8.20e+00) -	6.50e+00 (6.10e+00) -
WCCI20-MaTSO4-T13	1.51e-10 (1.53e-10)	4.89e+00 (1.85e+01) -	2.60e-02 (1.47e-02) -	3.19e-03 (3.12e-03) -	5.30e-03 (2.15e-03) -	4.60e-03 (2.21e-03) -
WCCI20-MaTSO4-T14	1.28e+02 (8.93e+01)	6.93e+02 (9.02e+02) -	6.66e+02 (1.10e+03) =	1.13e+03 (2.02e+03) -	7.63e+02 (1.53e+03) =	2.51e+03 (9.19e+03) -
WCCI20-MaTSO4-T15	5.55e-06 (2.93e-06)	2.59e+00 (5.87e-01) -	1.36e-01 (3.99e-02) -	5.46e-02 (4.13e-02) -	9.69e+00 (8.33e+00) -	9.52e+00 (7.35e+00) -
WCCI20-MaTSO4-T16	3.75e-10 (5.42e-10)	7.06e-01 (1.61e+00) -	3.20e-02 (1.26e-02) -	3.10e-03 (1.19e-03) -	5.77e-03 (2.89e-03) -	5.72e-03 (2.64e-03) -
WCCI20-MaTSO4-T17	9.11e+01 (6.88e+01)	2.81e+03 (1.02e+04) -	4.58e+02 (6.50e+02) -	6.59e+02 (1.55e+03) -	2.82e+02 (6.23e+02) -	2.20e+02 (3.41e+02) -
WCCI20-MaTSO4-T18	7.59e-06 (3.65e-06)	2.19e+00 (9.01e-01) -	1.61e-01 (4.65e-02) -	6.29e-02 (4.44e-02) -	1.01e+01 (8.48e+00) -	1.02e+01 (7.71e+00) -
WCCI20-MaTSO4-T19	7.19e-11 (7.45e-11)	1.50e+00 (3.56e+00) -	2.84e-02 (1.42e-02) -	2.07e-03 (1.22e-03) -	5.30e-03 (2.37e-03) -	5.57e-03 (2.42e-03) -
WCCI20-MaTSO4-T20	5.41e+01 (2.10e+01)	3.57e+02 (4.39e+02) -	1.32e+04 (5.57e+04) -	4.20e+02 (7.59e+02) -	6.46e+02 (2.16e+03) -	1.82e+03 (4.15e+03) -
WCCI20-MaTSO4-T21	4.15e-06 (1.81e-06)	2.19e+00 (5.45e-01) -	1.74e-01 (5.36e-02) -	6.38e-02 (4.54e-02) -	1.01e+01 (8.17e+00) -	7.67e+00 (8.50e+00) -
WCCI20-MaTSO4-T22	4.39e-10 (4.20e-10)	7.09e-01 (1.25e+00) -	3.14e-02 (1.56e-02) -	2.14e-03 (8.29e-04) -	4.78e-03 (1.66e-03) -	5.16e-03 (1.76e-03) -
WCCI20-MaTSO4-T23	1.65e+02 (1.36e+02)	2.75e+02 (1.69e+02) -	1.01e+03 (1.54e+03) -	9.27e+02 (1.61e+03) =	1.51e+03 (3.04e+03) =	4.75e+02 (1.03e+03) =
WCCI20-MaTSO4-T24	1.21e-05 (6.30e-06)	2.22e+00 (8.09e-01) -	1.84e-01 (6.07e-02) -	6.74e-02 (6.75e-02) -	9.56e+00 (8.54e+00) -	7.42e+00 (6.88e+00) -
WCCI20-MaTSO4-T25	5.04e-11 (5.38e-11)	4.14e+00 (8.38e+00) -	3.50e-02 (1.85e-02) -	2.68e-03 (1.61e-03) -	5.14e-03 (2.36e-03) -	4.44e-03 (2.79e-03) -
WCCI20-MaTSO4-T26	5.85e+01 (2.56e+01)	3.46e+02 (4.73e+02) -	1.76e+02 (2.44e+02) -	1.91e+02 (3.66e+02) -	3.23e+02 (7.94e+02) -	6.55e+02 (1.55e+03) -
WCCI20-MaTSO4-T27	3.90e-06 (2.25e-06)	2.29e+00 (7.68e-01) -	1.80e-01 (5.73e-02) -	7.83e-02 (6.34e-02) -	8.66e+00 (7.17e+00) -	8.25e+00 (7.96e+00) -
WCCI20-MaTSO4-T28	3.07e-10 (2.97e-10)	1.92e+00 (4.06e+00) -	2.89e-02 (9.53e-03) -	2.52e-03 (1.14e-03) -	5.50e-03 (2.07e-03) -	5.65e-03 (2.58e-03) -
WCCI20-MaTSO4-T29	1.47e+02 (1.15e+02)	2.22e+03 (8.22e+03) -	5.55e+02 (1.01e+03) -	3.98e+02 (8.47e+02) =	1.22e+03 (2.48e+03) =	6.71e+02 (1.00e+03) -
WCCI20-MaTSO4-T30	9.40e-06 (4.43e-06)	1.88e+00 (8.42e-01) -	1.73e-01 (6.70e-02) -	5.53e-02 (2.45e-02) -	1.08e+01 (8.29e+00) -	1.11e+01 (8.79e+00) -
WCCI20-MaTSO4-T31	2.25e-10 (2.02e-10)	3.39e+00 (9.78e+00) -	2.99e-02 (1.13e-02) -	2.67e-03 (1.09e-03) -	5.09e-03 (1.71e-03) -	6.56e-03 (3.69e-03) -
WCCI20-MaTSO4-T32	4.92e+02 (6.64e+02)	1.30e+03 (1.03e+03) -	1.25e+03 (1.44e+03) =	3.35e+02 (7.88e+02) =	9.27e+02 (1.60e+03) =	1.58e+03 (4.06e+03) =
WCCI20-MaTSO4-T33	8.21e-06 (2.62e-06)	2.14e+00 (6.11e-01) -	1.54e-01 (5.51e-02) -	6.72e-02 (4.41e-02) -	8.60e+00 (6.84e+00) -	9.81e+00 (8.09e+00) -
WCCI20-MaTSO4-T34	2.62e-10 (1.69e-10)	2.19e+00 (6.94e+00) -	2.74e-02 (1.08e-02) -	2.40e-03 (1.51e-03) -	5.24e-03 (3.24e-03) -	4.97e-03 (2.58e-03) -
WCCI20-MaTSO4-T35	4.84e+02 (6.29e+02)	1.07e+03 (9.24e+02) -	7.22e+02 (1.17e+03) =	6.41e+02 (1.04e+03) =	4.99e+02 (9.55e+02) =	9.64e+02 (1.67e+03) =
WCCI20-MaTSO4-T36	7.08e-06 (3.28e-06)	2.19e+00 (7.55e-01) -	1.70e-01 (5.47e-02) -	7.54e-02 (5.25e-02) -	9.06e+00 (7.45e+00) -	7.50e+00 (7.01e+00) -
WCCI20-MaTSO4-T37	1.16e-10 (1.35e-10)	6.32e-01 (1.68e+00) -	2.70e-02 (1.42e-02) -	2.42e-03 (1.47e-03) -	5.61e-03 (2.24e-03) -	5.08e-03 (2.90e-03) -
WCCI20-MaTSO4-T38	1.92e+02 (3.62e+02)	9.11e+02 (9.15e+02) -	1.12e+03 (2.10e+03) -	1.39e+03 (3.25e+03) -	9.50e+02 (1.71e+03) -	1.54e+03 (3.68e+03) -
WCCI20-MaTSO4-T39	5.60e-06 (2.05e-06)	2.34e+00 (6.95e-01) -	1.84e-01 (5.94e-02) -	7.04e-02 (3.61e-02) -	8.41e+00 (8.59e+00) -	8.49e+00 (8.15e+00) -
WCCI20-MaTSO4-T40	4.76e-10 (3.56e-10)	7.48e+00 (2.64e+01) -	3.06e-02 (1.67e-02) -	2.54e-03 (1.19e-03) -	5.25e-03 (2.02e-03) -	4.90e-03 (2.69e-03) -
WCCI20-MaTSO4-T41	5.81e+01 (2.42e+01)	3.39e+02 (4.40e+02) -	4.03e+02 (7.95e+02) -	2.95e+02 (4.89e+02) -	3.61e+02 (5.04e+02) -	3.15e+03 (1.16e+04) -
WCCI20-MaTSO4-T42	4.68e-06 (3.07e-06)	2.16e+00 (7.73e-01) -	1.61e-01 (5.71e-02) -	5.88e-02 (4.17e-02) -	1.04e+01 (8.94e+00) -	7.68e+00 (8.06e+00) -
WCCI20-MaTSO4-T43	4.23e-11 (3.83e-11)	2.09e+00 (5.69e+00) -	3.31e-02 (1.89e-02) -	2.04e-03 (1.22e-03) -	4.39e-03 (2.34e-03) -	4.95e-03 (3.33e-03) -
WCCI20-MaTSO4-T44	6.88e+01 (4.60e+01)	4.75e+02 (5.48e+02) -	1.04e+03 (1.50e+03) -	3.91e+02 (7.70e+02) -	7.51e+02 (2.02e+03) -	1.89e+03 (3.72e+03) -
WCCI20-MaTSO4-T45	4.75e-06 (2.86e-06)	2.66e+00 (7.43e-01) -	1.90e-01 (7.43e-02) -	7.58e-02 (6.95e-02) -	9.53e+00 (8.95e+00) -	1.03e+01 (9.10e+00) -
WCCI20-MaTSO4-T46	5.07e-10 (5.41e-10)	1.05e+00 (1.97e+00) -	2.70e-02 (1.11e-02) -	2.43e-03 (1.06e-03) -	4.92e-03 (1.61e-03) -	5.64e-03 (2.73e-03) -
WCCI20-MaTSO4-T47	4.92e+01 (4.89e+00)	1.92e+02 (2.53e+02) -	1.45e+02 (1.69e+02) -	8.32e+03 (3.63e+04) -	5.53e+02 (9.76e+02) -	4.97e+02 (1.22e+03) -
WCCI20-MaTSO4-T48	7.46e-06 (3.88e-06)	2.21e+00 (6.22e-01) -	1.71e-01 (5.37e-02) -	7.93e-02 (7.70e-02) -	4.85e+00 (5.42e+00) -	9.64e+00 (8.21e+00) -
WCCI20-MaTSO4-T49	5.54e-10 (8.83e-10)	3.88e+00 (1.22e+01) -	3.05e-02 (1.27e-02) -	2.25e-03 (1.02e-03) -	4.98e-03 (1.72e-03) -	4.97e-03 (1.67e-03) -
WCCI20-MaTSO4-T50	9.08e+01 (4.84e+01)	8.82e+02 (1.01e+03) -	1.99e+02 (1.48e+02) -	8.41e+02 (1.42e+03) -	1.42e+03 (2.88e+03) -	9.02e+02 (1.51e+03) -
+/-/=	Base	0/50/0	0/47/3	0/46/4	0/45/5	0/47/3

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO5 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO5 IN TEST SUITE 4.

Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
WCCI20-MaTSO5-T1	3.82e+02 (1.28e+01)	2.55e+02 (1.15e+02) +	4.16e+02 (1.47e+01) -	3.93e+02 (9.13e+00) -	4.10e+02 (1.48e+01) -	4.05e+02 (1.80e+01) -
WCCI20-MaTSO5-T2	3.71e-04 (1.65e-03)	3.49e-02 (4.21e-02) -	1.23e-02 (3.47e-03) -	2.22e-03 (1.11e-03) -	4.62e-03 (1.62e-03) -	4.54e-03 (1.86e-03) -
WCCI20-MaTSO5-T3	5.65e-01 (8.12e-01)	1.32e+01 (5.34e+00) -	5.42e+00 (1.30e+00) -	3.30e+00 (1.10e+00) -	2.35e+01 (1.18e+01) -	2.31e+01 (1.31e+01) -
WCCI20-MaTSO5-T4	3.86e+02 (1.33e+01)	2.30e+02 (9.77e+01) +	4.09e+02 (1.36e+01) -	3.97e+02 (1.93e+01) =	4.07e+02 (1.51e+01) -	4.11e+02 (1.40e+01) -
WCCI20-MaTSO5-T5	1.39e-06 (9.17e-07)	2.11e-02 (4.21e-02) -	1.53e-02 (6.16e-03) -	2.59e-03 (1.00e-03) -	4.04e-03 (1.33e-03) -	5.50e-03 (2.44e-03) -
WCCI20-MaTSO5-T6	3.69e-01 (3.65e-01)	1.22e+01 (3.44e+00) -	5.30e+00 (9.70e-01) -	3.20e+00 (9.25e-01) -	2.01e+01 (1.03e+01) -	2.06e+01 (1.13e+01) -
WCCI20-MaTSO5-T7	3.80e+02 (1.71e+01)	2.42e+02 (1.63e+02) +	4.12e+02 (1.26e+01) -	4.00e+02 (1.31e+01) -	4.08e+02 (1.56e+01) -	4.10e+02 (1.63e+01) -
WCCI20-MaTSO5-T8	2.70e-06 (1.56e-06)	5.15e-02 (1.31e-01) -	1.50e-02 (6.30e-03) -	1.94e-03 (6.56e-04) -	4.27e-03 (1.25e-03) -	5.29e-03 (2.56e-03) -
WCCI20-MaTSO5-T9	6.06e-01 (6.73e-01)	1.38e+01 (6.37e+00) -	5.02e+00 (8.31e-01) -	2.95e+00 (9.69e-01) -	2.36e+01 (1.11e+01) -	1.89e+01 (1.14e+01) -
WCCI20-MaTSO5-T10	3.83e+02 (1.42e+01)	2.33e+02 (9.65e+01) +	4.14e+02 (2.15e+01) -	4.03e+02 (1.23e+01) -	4.09e+02 (1.25e+01) -	4.11e+02 (1.33e+01) -
WCCI20-MaTSO5-T11	1.59e-06 (8.84e-07)	3.98e-02 (4.76e-02) -	1.42e-02 (5.19e-03) -	2.27e-03 (1.09e-03) -	4.87e-03 (2.71e-03) -	4.97e-03 (1.22e-03) -
WCCI20-MaTSO5-T12	7.50e-01 (7.55e-01)	1.23e+01 (3.49e+00) -	5.08e+00 (8.03e-01) -	3.53e+00 (1.30e+00) -	2.39e+01 (1.07e+01) -	2.67e+01 (1.31e+01) -
WCCI20-MaTSO5-T13	3.80e+02 (1.37e+01)	2.51e+02 (1.60e+02) +	4.14e+02 (1.99e+01) -	4.06e+02 (1.49e+01) -	4.03e+02 (1.67e+01) -	4.06e+02 (1.51e+01) -
WCCI20-MaTSO5-T14	1.36e-06 (9.71e-07)	4.79e-02 (1.40e-01) -	1.41e-02 (6.04e-03) -	2.30e-03 (9.12e-04) -	6.09e-03 (2.23e-03) -	4.63e-03 (1.47e-03) -
WCCI20-MaTSO5-T15	9.47e-01 (1.31e+00)	1.29e+01 (4.75e+00) -	5.55e+00 (1.48e+00) -	2.95e+00 (8.55e-01) -	2.01e+01 (9.35e+00) -	2.88e+01 (1.49e+01) -
WCCI20-MaTSO5-T16	3.84e+02 (1.26e+01)	2.66e+02 (1.19e+02) +	4.08e+02 (2.01e+01) -	4.03e+02 (1.66e+01) -	4.10e+02 (2.01e+01) -	4.08e+02 (1.77e+01) -
WCCI20-MaTSO5-T17	3.73e-04 (1.65e-03)	3.69e-02 (7.99e-02) -	1.52e-02 (4.33e-03) -	2.02e-03 (1.30e-03) -	3.89e-03 (1.16e-03) -	4.71e-03 (2.14e-03) -
WCCI20-MaTSO5-T18	5.00e-01 (6.48e-01)	1.28e+01 (4.84e+00) -	4.73e+00 (8.73e-01) -	2.88e+00 (1.04e+00) -	1.99e+01 (7.52e+00) -	2.10e+01 (1.22e+01) -
WCCI20-MaTSO5-T19	3.83e+02 (1.94e+01)	2.66e+02 (1.08e+02) +	4.08e+02 (1.60e+01) -	4.10e+02 (1.48e+01) -	4.02e+02 (1.36e+01) -	4.03e+02 (1.54e+01) -
WCCI20-MaTSO5-T20	1.86e-06 (2.02e-06)	1.14e-01 (2.27e-01) -	1.37e-02 (5.07e-03) -	2.29e-03 (1.00e-03) -	5.12e-03 (1.81e-03) -	4.21e-03 (1.53e-03) -
WCCI20-MaTSO5-T21	9.20e-01 (8.22e-01)	1.21e+01 (2.51e+00) -	5.13e+00 (1.52e+00) -	3.02e+00 (8.57e-01) -	1.97e+01 (1.02e+01) -	2.79e+01 (1.56e+01) -
WCCI20-MaTSO5-T22	3.86e+02 (1.56e+01)	2.98e+02 (1.57e+02) +	4.13e+02 (1.56e+01) -	4.04e+02 (1.62e+01) -	4.08e+02 (1.77e+01) -	4.13e+02 (1.32e+01) -
WCCI20-MaTSO5-T23	2.57e-06 (1.75e-06)	7.10e-02 (2.14e-01) -	1.41e-02 (5.18e-03) -	2.14e-03 (8.85e-04) -	4.46e-03 (1.51e-03) -	4.88e-03 (2.35e-03) -
WCCI20-MaTSO5-T24	4.90e-01 (5.57e-01)	1.30e+01 (3.53e+00) -	5.65e+00 (9.79e-01) -	3.46e+00 (1.13e+00) -	2.84e+01 (1.37e+01) -	2.24e+01 (1.39e+01) -
WCCI20-MaTSO5-T25	3.81e+02 (1.29e+01)	2.27e+02 (1.11e+02) +	4.12e+02 (1.87e+01) -	4.06e+02 (1.34e+01) -	4.01e+02 (2.35e+01) -	4.05e+02 (1.87e+01) -
WCCI20-MaTSO5-T26	1.95e-06 (9.31e-07)	1.04e-01 (2.36e-01) -	1.36e-02 (3.82e-03) -	2.07e-03 (1.07e-03) -	4.41e-03 (3.11e-03) -	4.91e-03 (2.76e-03) -
WCCI20-MaTSO5-T27	7.41e-01 (1.18e+00)	1.42e+01 (3.29e+00) -	6.04e+00 (1.37e+00) -	3.47e+00 (1.06e+00) -	2.40e+01 (1.07e+01) -	2.52e+01 (1.31e+01) -
WCCI20-MaTSO5-T28	3.82e+02 (1.32e+01)	2.53e+02 (9.22e+01) +	4.13e+02 (1.50e+01) -	3.96e+02 (1.38e+01) -	4.02e+02 (1.77e+01) -	4.07e+02 (1.73e+01) -
WCCI20-MaTSO5-T29	3.73e-04 (1.65e-03)	2.52e-02 (3.72e-02) -	1.34e-02 (4.09e-03) -	2.24e-03 (8.28e-04) -	4.89e-03 (1.67e-03) -	5.54e-03 (2.61e-03) -
WCCI20-MaTSO5-T30	7.16e-01 (7.25e-01)	1.34e+01 (5.31e+00) -	5.27e+00 (6.46e-01) -	3.24e+00 (1.26e+00) -	2.83e+01 (1.20e+01) -	2.52e+01 (1.34e+01) -
WCCI20-MaTSO5-T31	3.80e+02 (1.65e+01)	2.65e+02 (1.25e+02) +	4.15e+02 (1.49e+01) -	4.03e+02 (2.10e+01) -	4.12e+02 (1.09e+01) -	4.12e+02 (1.25e+01) -
WCCI20-MaTSO5-T32	9.28e-07 (3.92e-07)	4.38e-02 (9.70e-02) -	1.43e-02 (5.71e-03) -	2.21e-03 (1.35e-03) -	4.54e-03 (1.38e-03) -	4.35e-03 (1.30e-03) -
WCCI20-MaTSO5-T33	4.49e-01 (5.08e-01)	1.43e+01 (7.85e+00) -	5.17e+00 (1.11e+00) -	2.94e+00 (5.45e-01) -	2.38e+01 (9.59e+00) -	1.63e+01 (5.66e+00) -
WCCI20-MaTSO5-T34	3.80e+02 (1.92e+01)	2.16e+02 (8.56e+01) +	4.07e+02 (1.59e+01) -	4.02e+02 (2.02e+01) -	4.11e+02 (1.61e+01) -	4.04e+02 (1.42e+01) -
WCCI20-MaTSO5-T35	1.87e-06 (6.93e-07)	8.22e-02 (1.41e-01) -	1.25e-02 (4.39e-03) -	2.11e-03 (1.09e-03) -	4.80e-03 (1.77e-03) -	4.22e-03 (1.87e-03) -
WCCI20-MaTSO5-T36	4.88e-01 (4.50e-01)	1.00e+01 (2.86e+00) -	4.68e+00 (6.07e-01) -	2.79e+00 (6.70e-01) -	2.38e+01 (1.52e+01) -	2.47e+01 (1.35e+01) -
WCCI20-MaTSO5-T37	3.73e+02 (1.43e+01)	2.45e+02 (1.07e+02) +	4.15e+02 (2.42e+01) -	4.10e+02 (1.27e+01) -	4.06e+02 (1.43e+01) -	3.98e+02 (2.67e+01) -
WCCI20-MaTSO5-T38	2.30e-06 (2.08e-06)	1.06e-01 (2.62e-01) -	1.22e-02 (3.70e-03) -	1.91e-03 (8.26e-04) -	4.07e-03 (1.33e-03) -	4.61e-03 (2.13e-03) -
WCCI20-MaTSO5-T39	4.24e-01 (5.40e-01)	1.63e+01 (6.90e+00) -	5.63e+00 (8.13e-01) -	3.50e+00 (1.39e+00) -	2.32e+01 (1.25e+01) -	1.99e+01 (1.05e+01) -
WCCI20-MaTSO5-T40	3.80e+02 (1.82e+01)	2.60e+02 (1.00e+02) +	4.15e+02 (1.39e+01) -	4.09e+02 (1.43e+01) -	4.07e+02 (1.75e+01) -	4.04e+02 (1.69e+01) -
WCCI20-MaTSO5-T41	2.37e-06 (1.23e-06)	1.79e-02 (2.28e-02) -	1.43e-02 (3.39e-03) -	1.81e-03 (7.27e-04) -	4.94e-03 (1.58e-03) -	4.43e-03 (1.47e-03) -
WCCI20-MaTSO5-T41	3.39e-01 (4.46e-01)	1.23e+01 (5.14e+00) -	5.08e+00 (7.70e-01) -	3.38e+00 (1.03e+00) -	2.12e+01 (1.05e+01) -	2.09e+01 (8.51e+00) -
WCCI20-MaTSO5-T42	3.73e+02 (1.99e+01)	2.73e+02 (1.39e+02) +	4.11e+02 (2.37e+01) -	3.98e+02 (1.20e+01) -	4.15e+02 (1.72e+01) -	4.03e+02 (1.46e+01) -
WCCI20-MaTSO5-T44	3.72e-04 (1.65e-03)	2.74e-02 (3.81e-02) -	1.57e-02 (6.79e-03) -	2.44e-03 (8.41e-04) -	4.61e-03 (1.63e-03) -	5.25e-03 (2.13e-03) -
WCCI20-MaTSO5-T45	5.12e-01 (6.08e-01)	1.19e+01 (4.28e+00) -	5.28e+00 (9.09e-01) -	3.31e+00 (1.47e+00) -	2.69e+01 (1.51e+01) -	2.23e+01 (9.60e+00) -
WCCI20-MaTSO5-T46	3.79e+02 (1.44e+01)	2.93e+02 (1.27e+02) +	4.10e+02 (1.60e+01) -	4.06e+02 (1.47e+01) -	4.02e+02 (1.45e+01) -	4.03e+02 (1.75e+01) -
WCCI20-MaTSO5-T47	1.67e-06 (1.10e-06)	4.94e-02 (5.24e-02) -	1.34e-02 (4.88e-03) -	1.94e-03 (8.03e-04) -	5.11e-03 (1.85e-03) -	5.00e-03 (2.19e-03) -
WCCI20-MaTSO5-T48	8.81e-01 (1.28e+00)	1.15e+01 (3.39e+00) -	4.86e+00 (9.00e-01) -	3.23e+00 (7.72e-01) -	2.60e+01 (1.31e+01) -	2.47e+01 (1.28e+01) -
WCCI20-MaTSO5-T49	3.76e+02 (1.34e+01)	2.18e+02 (1.07e+02) +	4.11e+02 (1.32e+01) -	4.09e+02 (1.30e+01) -	4.04e+02 (1.55e+01) -	4.12e+02 (2.18e+01) -
WCCI20-MaTSO5-T50	1.81e-06 (9.06e-07)	7.64e-02 (1.26e-01) -	1.42e-02 (6.64e-03) -	2.78e-03 (1.20e-03) -	5.29e-03 (2.31e-03) -	4.86e-03 (1.60e-03) -
+/-/=	Base	17/33/0	0/50/0	0/49/1	0/50/0	0/50/0
17.7=	Dusc	1113310	0/20/0	01 17/11	0,50,0	0,30,0

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO6 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO6 IN TEST SUITE 4.

Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
WCCI20-MaTSO6-T1	1.01e+02 (1.37e+02)	6.63e+02 (1.03e+03) -	3.75e+02 (7.04e+02) -	3.82e+02 (1.12e+03) =	5.14e+02 (9.49e+02) -	1.47e+03 (2.01e+03) -
WCCI20-MaTSO6-T2	7.39e-04 (3.30e-03)	3.77e-02 (9.04e-02) -	1.52e-02 (5.78e-03) -	2.07e-03 (9.52e-04) -	4.19e-03 (1.55e-03) -	4.56e-03 (1.78e-03) -
WCCI20-MaTSO6-T3	1.14e+04 (2.89e+03)	1.06e+04 (2.85e+03) =	1.28e+04 (6.27e+02) -	1.27e+04 (5.78e+02) =	1.26e+04 (5.51e+02) =	1.28e+04 (5.16e+02) =
WCCI20-MaTSO6-T4	4.77e+01 (9.88e-01)	1.00e+03 (1.73e+03) -	3.78e+02 (9.55e+02) -	3.36e+02 (6.15e+02) -	1.17e+03 (1.80e+03) -	9.08e+02 (3.35e+03) -
WCCI20-MaTSO6-T5	4.12e-07 (3.32e-07)	3.45e-02 (5.13e-02) -	1.60e-02 (4.87e-03) -	2.20e-03 (1.47e-03) -	4.86e-03 (1.61e-03) -	4.03e-03 (1.38e-03) -
WCCI20-MaTSO6-T6	1.10e+04 (3.15e+03)	1.10e+04 (3.11e+03) =	1.28e+04 (4.31e+02) -	1.29e+04 (4.11e+02) -	1.26e+04 (5.34e+02) -	1.29e+04 (4.32e+02) -
WCCI20-MaTSO6-T7	7.60e+01 (7.52e+01)	3.73e+02 (4.42e+02) -	4.39e+02 (6.46e+02) -	1.06e+03 (3.26e+03) -	5.13e+02 (1.20e+03) -	7.78e+02 (1.54e+03) -
WCCI20-MaTSO6-T8	4.69e-07 (3.76e-07)	7.45e-02 (1.12e-01) -	1.25e-02 (4.30e-03) -	1.84e-03 (7.99e-04) -	4.64e-03 (1.55e-03) -	4.18e-03 (1.19e-03) -
WCCI20-MaTSO6-T9	1.09e+04 (3.01e+03)	1.14e+04 (2.80e+03) =	1.28e+04 (5.13e+02) -	1.28e+04 (4.79e+02) -	1.28e+04 (4.44e+02) -	1.27e+04 (7.72e+02) -
WCCI20-MaTSO6-T10	8.73e+01 (1.48e+02)	4.22e+02 (6.29e+02) -	4.24e+02 (7.54e+02) -	5.49e+02 (1.14e+03) -	6.48e+02 (1.38e+03) -	6.19e+02 (1.37e+03) -
WCCI20-MaTSO6-T11	3.59e-07 (3.98e-07)	4.59e-02 (6.48e-02) -	1.42e-02 (4.84e-03) -	1.95e-03 (7.97e-04) -	4.57e-03 (1.48e-03) -	4.93e-03 (1.89e-03) -
WCCI20-MaTSO6-T12	1.03e+04 (3.52e+03)	1.07e+04 (2.33e+03) =	1.29e+04 (4.38e+02) -	1.30e+04 (4.10e+02) -	1.27e+04 (5.35e+02) -	1.28e+04 (3.93e+02) -
WCCI20-MaTSO6-T13	5.54e+01 (2.42e+01)	2.44e+02 (2.49e+02) -	2.59e+02 (4.59e+02) -	3.82e+02 (1.31e+03) -	7.76e+02 (2.27e+03) -	2.19e+02 (2.91e+02) -
WCCI20-MaTSO6-T14	3.70e-04 (1.65e-03)	2.49e-02 (3.56e-02) -	1.50e-02 (5.69e-03) -	2.55e-03 (1.24e-03) -	4.36e-03 (1.56e-03) -	4.21e-03 (1.79e-03) -
WCCI20-MaTSO6-T14	9.82e+03 (4.00e+03)	1.03e+04 (3.30e+03) =	1.27e+04 (5.48e+02) -	1.28e+04 (5.85e+02) -	1.28e+04 (3.94e+02) -	1.28e+04 (4.12e+02) -
WCCI20-MaTSO6-T16	5.54e+01 (2.29e+01)	6.82e+02 (7.70e+02) -	7.70e+02 (9.46e+02) -	4.02e+02 (6.90e+02) -	3.11e+02 (6.17e+02) -	2.93e+02 (6.13e+02) -
WCCI20-MaTSO6-T10	3.34e-07 (2.13e-07)	5.56e-02 (1.01e-01) -	1.46e-02 (5.19e-03) -	1.98e-03 (1.01e-03) -	4.48e-03 (1.77e-03) -	5.32e-03 (2.02e-03) -
WCCI20-MaTSO6-T17	1.17e+04 (2.38e+03)	1.14e+04 (2.72e+03) =	1.30e+04 (4.63e+02) -	1.29e+04 (3.24e+02) -	1.29e+04 (3.98e+02) -	1.26e+04 (6.08e+02) =
WCCI20-MaTSO6-T19	4.81e+01 (6.83e-01)	2.85e+02 (5.17e+02) -	3.11e+03 (1.34e+04) -	3.42e+02 (7.91e+02) -	9.74e+02 (1.71e+03) -	2.93e+02 (6.13e+02) -
WCCI20-MaTSO6-T19	3.68e-07 (3.25e-07)	6.00e-02 (1.21e-01) -	1.36e-02 (5.12e-03) -	2.23e-03 (8.04e-04) -	5.88e-03 (4.21e-03) -	4.52e-03 (1.44e-03) -
WCCI20-MaTSO6-T21	9.89e+03 (4.26e+03)	1.20e+04 (1.85e+03) =	1.28e+04 (4.29e+02) -	1.29e+04 (5.26e+02) -	1.26e+04 (4.26e+02) =	1.28e+04 (3.14e+02) -
WCCI20-MaTSO6-T21	1.61e+02 (2.49e+02)	4.82e+02 (8.64e+02) -	7.16e+02 (9.78e+02) -	4.16e+02 (8.60e+02) -	1.51e+03 (2.77e+03) -	1.20e+03 (1.90e+03) -
WCCI20-MaTSO6-T23	3.70e-04 (1.65e-03)	7.29e-02 (1.47e-01) -	1.33e-02 (4.59e-03) -	2.12e-03 (8.62e-04) -	4.71e-03 (1.57e-03) -	5.59e-03 (1.62e-03) -
WCCI20-MaTSO6-T24	1.20e+04 (1.60e+03)	1.08e+04 (2.98e+03) =	1.28e+04 (4.80e+02) -	1.28e+04 (5.12e+02) -	1.28e+04 (5.85e+02) -	1.28e+04 (5.30e+02) -
WCCI20-MaTSO6-T25	7.47e+01 (6.55e+01)	4.85e+02 (5.84e+02) -	5.17e+02 (1.01e+03) -	3.27e+02 (9.01e+02) -	2.72e+02 (6.02e+02) -	4.43e+02 (8.15e+02) -
WCCI20-MaTSO6-T26	4.94e-04 (2.21e-03)	7.62e-02 (1.29e-01) -	1.50e-02 (5.09e-03) -	2.46e-03 (1.05e-03) -	4.27e-03 (1.48e-03) -	5.16e-03 (2.01e-03) -
WCCI20-MaTSO6-T27	8.55e+03 (4.40e+03)	1.13e+04 (2.57e+03) -	1.28e+04 (4.95e+02) -	1.28e+04 (7.02e+02) -	1.26e+04 (4.42e+02) -	1.25e+04 (5.66e+02) -
WCCI20-MaTSO6-T28	7.24e+01 (3.64e+01)	5.26e+02 (8.66e+02) -	6.67e+02 (1.77e+03) -	2.02e+02 (2.97e+02) -	5.21e+02 (1.01e+03) -	6.92e+02 (1.77e+03) -
WCCI20-MaTSO6-T29	4.19e-07 (3.66e-07)	5.88e-02 (9.90e-02) -	1.36e-02 (4.14e-03) -	2.17e-03 (1.11e-03) -	4.13e-03 (1.29e-03) -	4.29e-03 (2.04e-03) -
WCCI20-MaTSO6-T30	1.16e+04 (2.10e+03)	1.06e+04 (2.81e+03) =	1.28e+04 (2.88e+02) -	1.30e+04 (4.66e+02) -	1.28e+04 (4.64e+02) -	1.26e+04 (4.65e+02) =
WCCI20-MaTSO6-T31	7.15e+01 (4.79e+01)	7.70e+02 (1.55e+03) -	4.70e+02 (7.15e+02) -	7.64e+02 (1.59e+03) -	2.74e+02 (3.44e+02) -	9.06e+02 (1.63e+03) -
WCCI20-MaTSO6-T31	3.84e-07 (2.59e-07)	7.04e-02 (1.59e-01) -	1.22e-02 (4.53e-03) -	2.67e-03 (1.82e-03) -	5.51e-03 (1.94e-03) -	5.19e-03 (4.40e-03) -
WCCI20-MaTSO6-T32	9.99e+03 (3.69e+03)	1.15e+04 (2.74e+03) =	1.28e+04 (5.18e+02) -	1.27e+04 (5.67e+02) -	1.24e+04 (7.75e+02) -	1.28e+04 (4.89e+02) -
WCCI20-MaTSO6-T34	5.09e+01 (1.32e+01)	5.86e+02 (1.62e+03) -	1.48e+02 (1.52e+02) -	3.15e+02 (7.00e+02) -	4.44e+02 (8.76e+02) -	1.41e+03 (2.56e+03) -
WCCI20-MaTSO6-T35	3.61e-07 (2.08e-07)	5.93e-02 (1.25e-01) -	1.41e-02 (5.14e-03) -	2.13e-03 (1.02e-03) -	4.61e-03 (2.07e-03) -	5.16e-03 (2.52e-03) -
WCCI20-MaTSO6-133	1.09e+04 (2.92e+03)	1.11e+04 (2.95e+03) =	1.41e-02 (3.14e-03) - 1.30e+04 (3.70e+02) -	1.29e+04 (4.72e+02) -	1.29e+04 (3.02e+02) -	1.27e+04 (5.83e+02) -
WCCI20-MaTSO6-136 WCCI20-MaTSO6-T37	6.82e+01 (5.60e+01)	3.57e+02 (4.68e+02) -	6.63e+03 (2.87e+04) -	7.51e+02 (1.31e+03) -	2.01e+03 (5.00e+03) -	6.85e+02 (1.72e+03) -
WCCI20-MaTSO6-T38	2.94e-07 (2.78e-07)	4.69e-02 (7.42e-02) -	1.47e-02 (6.31e-03) -	1.94e-03 (9.01e-04) -	5.51e-03 (1.44e-03) -	4.54e-03 (1.65e-03) -
WCCI20-MaTSO6-T39	1.18e+04 (2.54e+03)	1.12e+04 (3.46e+03) =	1.28e+04 (4.66e+02) =	1.29e+04 (3.19e+02) -	1.27e+04 (4.95e+02) =	1.28e+04 (5.22e+02) =
WCCI20-MaTSO6-T40	2.93e+02 (4.22e+02)	1.41e+03 (1.33e+03) -	4.81e+02 (6.80e+02) =	4.12e+02 (6.72e+02) =	1.29e+03 (2.53e+03) =	4.20e+02 (1.03e+03) =
WCCI20-MaTSO6-T41	3.09e-07 (2.16e-07)	6.65e-02 (1.41e-01) -	1.26e-02 (5.06e-03) -	2.10e-03 (1.24e-03) -	4.15e-03 (1.68e-03) -	5.19e-03 (1.93e-03) -
WCCI20-MaTSO6-T42	1.08e+04 (2.95e+03)	1.07e+04 (2.51e+03) =	1.29e+04 (3.73e+02) -	1.28e+04 (4.77e+02) -	1.28e+04 (4.37e+02) -	1.27e+04 (4.29e+02) -
WCCI20-MaTSO6-T43	2.19e+02 (3.48e+02)	1.45e+03 (3.06e+03) -	4.75e+02 (9.28e+02) =	6.52e+02 (1.99e+03) =	4.57e+02 (9.63e+02) =	1.06e+03 (1.92e+03) -
WCCI20-MaTSO6-T44	7.83e-07 (6.74e-07)	2.07e-02 (3.52e-02) -	1.44e-02 (6.94e-03) -	1.96e-03 (7.40e-04) -	5.41e-03 (2.18e-03) -	4.46e-03 (1.84e-03) -
WCCI20-MaTSO6-T45	1.21e+04 (1.81e+03)	1.15e+04 (2.63e+03) =	1.27e+04 (4.44e+02) =	1.28e+04 (4.96e+02) -	1.26e+04 (5.23e+02) =	1.28e+04 (4.34e+02) -
WCCI20-MaTSO6-T46	5.62e+02 (8.47e+02)	1.92e+03 (2.14e+03) -	1.00e+03 (1.86e+03) =	8.82e+02 (1.16e+03) =	7.52e+02 (1.52e+03) =	8.45e+02 (2.12e+03) =
WCCI20-MaTSO6-T47	4.67e-07 (5.32e-07)	6.30e-02 (1.05e-01) -	1.37e-02 (3.96e-03) -	2.50e-03 (1.22e-03) -	4.50e-03 (1.88e-03) -	5.32e-03 (1.44e-03) -
WCCI20-MaTSO6-T48	1.16e+04 (2.15e+03)	1.21e+04 (2.90e+03) =	1.28e+04 (4.65e+02) -	1.29e+04 (6.37e+02) -	1.29e+04 (4.17e+02) -	1.30e+04 (4.16e+02) -
WCCI20-MaTSO6-T49	1.12e+02 (7.93e+01)	5.19e+02 (5.13e+02) -	5.10e+02 (1.05e+03) -	5.17e+02 (1.22e+03) =	4.75e+02 (8.86e+02) -	5.33e+02 (1.22e+03) =
WCCI20-MaTSO6-T50	3.70e-04 (1.65e-03)	1.01e-01 (2.35e-01) -	1.50e-02 (8.99e-03) -	2.50e-03 (1.40e-03) -	4.34e-03 (1.36e-03) -	4.54e-03 (1.79e-03) -
+/-/=	Base	0/35/15	0/45/5	0/44/6	0/43/7	0/43/7

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO7 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO7 IN TEST SUITE 4.

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Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
WCCI20-MaTSO7-T1	6.64e-06 (3.09e-06)	2.50e+00 (1.00e+00) -	2.09e-01 (6.67e-02) -	5.92e-03 (1.61e-03) -	1.27e+01 (9.03e+00) -	9.84e+00 (7.96e+00) -
WCCI20-MaTSO7-T2	3.85e+02 (1.50e+01)	2.57e+02 (1.05e+02) +	4.16e+02 (2.00e+01) -	4.03e+02 (1.16e+01) -	4.09e+02 (1.58e+01) -	4.05e+02 (1.82e+01) -
WCCI20-MaTSO7-T3	4.83e-01 (5.44e-01)	1.37e+01 (2.79e+00) -	6.37e+00 (2.09e+00) -	3.52e+00 (9.59e-01) -	2.63e+01 (1.42e+01) -	2.35e+01 (1.37e+01) -
WCCI20-MaTSO7-T4	4.01e-06 (2.31e-06)	2.41e+00 (9.10e-01) -	1.82e-01 (5.62e-02) -	7.25e-02 (8.59e-02) -	1.10e+01 (8.25e+00) -	8.66e+00 (8.64e+00) -
WCCI20-MaTSO7-T5	3.85e+02 (1.31e+01)	2.91e+02 (1.44e+02) +	4.10e+02 (1.89e+01) -	3.99e+02 (1.56e+01) -	4.07e+02 (1.34e+01) -	4.04e+02 (1.95e+01) -
WCCI20-MaTSO7-T6	7.57e-01 (5.81e-01)	1.41e+01 (8.51e+00) -	5.52e+00 (8.08e-01) -	3.06e+00 (6.93e-01) -	2.26e+01 (1.29e+01) -	2.50e+01 (1.03e+01) -
WCCI20-MaTSO7-T7	8.43e-06 (5.24e-06)	2.75e+00 (1.49e+00) -	1.96e-01 (8.03e-02) -	7.15e-02 (8.26e-02) -	9.03e+00 (8.09e+00) -	1.03e+01 (7.89e+00) -
WCCI20-MaTSO7-T8	3.78e+02 (1.78e+01)	2.74e+02 (1.08e+02) +	4.12e+02 (2.15e+01) -	4.01e+02 (1.92e+01) -	4.06e+02 (1.42e+01) -	4.07e+02 (2.06e+01) -
WCCI20-MaTSO7-T9	6.25e-01 (7.12e-01)	1.33e+01 (4.46e+00) -	5.90e+00 (1.19e+00) -	3.35e+00 (1.13e+00) -	2.04e+01 (1.38e+01) -	2.55e+01 (1.49e+01) -
WCCI20-MaTSO7-T10	7.81e-06 (3.52e-06)	2.57e+00 (9.35e-01) -	1.76e-01 (8.67e-02) -	4.57e-02 (2.08e-02) -	4.84e+00 (5.22e+00) -	8.11e+00 (8.15e+00) -
WCCI20-MaTSO7-T11	3.73e+02 (1.88e+01)	2.39e+02 (1.29e+02) +	4.16e+02 (1.91e+01) -	4.01e+02 (2.18e+01) -	4.12e+02 (1.60e+01) -	4.07e+02 (2.38e+01) -
WCCI20-MaTSO7-T12	4.74e-01 (5.39e-01)	1.50e+01 (5.74e+00) -	6.32e+00 (1.38e+00) -	2.99e+00 (8.07e-01) -	2.39e+01 (8.59e+00) -	2.37e+01 (1.46e+01) -
WCCI20-MaTSO7-T13	1.30e-05 (5.66e-06)	2.01e+00 (7.69e-01) -	1.76e-01 (8.41e-02) -	3.79e-02 (1.28e-02) -	9.59e+00 (8.46e+00) -	1.33e+01 (8.72e+00) -
WCCI20-MaTSO7-T14	3.86e+02 (1.35e+01)	2.91e+02 (1.61e+02) =	4.17e+02 (1.57e+01) -	4.10e+02 (1.22e+01) -	4.08e+02 (1.88e+01) -	4.03e+02 (1.72e+01) -
WCCI20-MaTSO7-T15	3.93e-01 (6.96e-01)	1.60e+01 (5.59e+00) -	6.06e+00 (1.08e+00) -	3.35e+00 (1.79e+00) -	2.52e+01 (1.46e+01) -	2.40e+01 (1.39e+01) -
WCCI20-MaTSO7-T16	3.95e-06 (2.18e-06)	2.45e+00 (8.78e-01) -	1.91e-01 (7.66e-02) -	4.77e-02 (2.48e-02) -	1.33e+01 (8.99e+00) -	1.15e+01 (8.02e+00) -
WCCI20-MaTSO7-T17	3.84e+02 (1.35e+01)	2.02e+02 (9.17e+01) +	4.11e+02 (1.31e+01) -	4.02e+02 (1.18e+01) -	4.09e+02 (1.21e+01) -	4.09e+02 (1.56e+01) -
WCCI20-MaTSO7-T17	7.12e-01 (8.93e-01)	1.36e+01 (6.28e+00) -	5.91e+00 (1.30e+00) -	3.48e+00 (1.25e+00) -	2.37e+01 (1.06e+01) -	2.88e+01 (1.64e+01) -
WCCI20-MaTSO7-T18	9.31e-06 (5.14e-06)	2.07e+00 (6.17e-01) -	2.13e-01 (9.28e-02) -	3.95e-02 (2.11e-02) -	1.02e+01 (8.19e+00) -	5.01e+00 (5.55e+00) -
WCCI20-MaTSO7-T19 WCCI20-MaTSO7-T20	3.86e+02 (1.87e+01)	2.33e+02 (1.25e+02) +	4.14e+02 (1.81e+01) -	4.06e+02 (2.11e-02) -	4.09e+02 (1.30e+01) -	4.08e+02 (1.43e+01) -
WCCI20-MaTSO7-T21	5.68e-01 (7.60e-01)	1.27e+01 (4.38e+00) -	4.14e+02 (1.81e+01) - 5.48e+00 (1.10e+00) -	3.11e+00 (1.15e+00) -	1.87e+01 (1.04e+01) -	2.41e+01 (1.40e+01) -
WCCI20-MaTSO7-T21	3.78e-06 (2.60e-06)	2.48e+00 (1.22e+00) -	1.95e-01 (7.65e-02) -	5.29e-02 (5.03e-02) -	1.32e+01 (8.32e+00) -	9.35e+00 (7.65e+00) -
WCCI20-MaTSO7-122 WCCI20-MaTSO7-T23			` /	4.02e+02 (2.16e+01) -	4.08e+02 (2.39e+01) -	4.03e+02 (1.96e+01) -
	3.85e+02 (9.48e+00)	2.27e+02 (9.19e+01) +	4.13e+02 (1.40e+01) -	(,		
WCCI20-MaTSO7-T24	3.73e-01 (5.29e-01)	1.33e+01 (4.89e+00) -	5.62e+00 (7.72e-01) -	3.64e+00 (1.16e+00) -	2.99e+01 (1.45e+01) -	1.94e+01 (7.69e+00) -
WCCI20-MaTSO7-T25 WCCI20-MaTSO7-T26	1.12e-05 (4.46e-06)	2.38e+00 (9.95e-01) -	2.16e-01 (1.04e-01) -	4.78e-02 (2.64e-02) -	5.41e+00 (4.88e+00) -	1.17e+01 (9.57e+00) -
	3.80e+02 (1.55e+01)	2.60e+02 (1.13e+02) +	4.16e+02 (1.46e+01) -	4.02e+02 (1.83e+01) -	4.13e+02 (2.05e+01) -	4.08e+02 (1.58e+01) -
WCCI20-MaTSO7-T27	5.62e-01 (6.87e-01)	1.16e+01 (4.01e+00) -	5.86e+00 (1.30e+00) -	2.89e+00 (8.51e-01) -	2.18e+01 (9.70e+00) -	2.55e+01 (9.80e+00) -
WCCI20-MaTSO7-T28	7.20e-06 (2.67e-06)	2.29e+00 (1.04e+00) -	1.78e-01 (6.82e-02) -	7.27e-02 (5.80e-02) -	9.94e+00 (8.17e+00) -	6.91e+00 (6.26e+00) -
WCCI20-MaTSO7-T29	3.82e+02 (1.96e+01)	2.28e+02 (1.12e+02) +	4.16e+02 (1.52e+01) -	4.02e+02 (1.50e+01) -	4.04e+02 (1.33e+01) -	4.06e+02 (1.86e+01) -
WCCI20-MaTSO7-T30	5.46e-01 (6.25e-01)	1.41e+01 (2.79e+00) -	5.94e+00 (1.12e+00) -	3.83e+00 (1.60e+00) -	2.57e+01 (1.32e+01) -	2.53e+01 (1.28e+01) -
WCCI20-MaTSO7-T31	9.23e-06 (5.47e-06)	2.31e+00 (1.17e+00) -	1.90e-01 (7.36e-02) -	6.64e-02 (6.02e-02) -	1.03e+01 (8.94e+00) -	9.88e+00 (7.95e+00) -
WCCI20-MaTSO7-T32	3.81e+02 (1.81e+01)	2.55e+02 (9.38e+01) +	4.12e+02 (1.83e+01) -	4.08e+02 (2.01e+01) -	4.06e+02 (1.59e+01) -	4.04e+02 (1.57e+01) -
WCCI20-MaTSO7-T33	4.59e-01 (5.84e-01)	1.30e+01 (5.26e+00) -	5.17e+00 (7.97e-01) -	3.16e+00 (8.61e-01) -	2.31e+01 (1.26e+01) -	2.22e+01 (9.77e+00) -
WCCI20-MaTSO7-T34	8.07e-06 (3.57e-06)	2.43e+00 (9.23e-01) -	2.10e-01 (9.31e-02) -	4.11e-02 (1.99e-02) -	9.69e+00 (7.70e+00) -	1.11e+01 (8.74e+00) -
WCCI20-MaTSO7-T35	3.82e+02 (1.48e+01)	2.75e+02 (1.11e+02) +	4.08e+02 (1.32e+01) -	4.01e+02 (1.82e+01) -	4.06e+02 (2.25e+01) -	4.13e+02 (1.52e+01) -
WCCI20-MaTSO7-T36	9.38e-01 (8.55e-01)	1.13e+01 (3.80e+00) -	6.06e+00 (1.20e+00) -	3.15e+00 (9.40e-01) -	2.30e+01 (1.23e+01) -	2.44e+01 (9.70e+00) -
WCCI20-MaTSO7-T37	9.09e-06 (3.70e-06)	2.00e+00 (7.45e-01) -	2.15e-01 (1.01e-01) -	4.69e-02 (2.57e-02) -	9.74e+00 (8.05e+00) -	1.00e+01 (8.98e+00) -
WCCI20-MaTSO7-T38	3.82e+02 (1.80e+01)	2.42e+02 (9.98e+01) +	4.13e+02 (1.89e+01) -	4.05e+02 (1.70e+01) -	4.07e+02 (1.55e+01) -	4.11e+02 (1.50e+01) -
WCCI20-MaTSO7-T39	4.83e-01 (7.30e-01)	1.06e+01 (3.66e+00) -	5.58e+00 (1.33e+00) -	3.22e+00 (1.13e+00) -	2.38e+01 (1.32e+01) -	1.98e+01 (6.68e+00) -
WCCI20-MaTSO7-T40	5.62e-06 (3.21e-06)	2.28e+00 (8.48e-01) -	2.54e-01 (9.48e-02) -	4.80e-02 (3.56e-02) -	9.32e+00 (7.99e+00) -	1.04e+01 (7.89e+00) -
WCCI20-MaTSO7-T41	3.85e+02 (1.42e+01)	2.63e+02 (1.08e+02) +	4.16e+02 (1.84e+01) -	4.10e+02 (1.35e+01) -	4.02e+02 (2.07e+01) -	4.12e+02 (1.42e+01) -
WCCI20-MaTSO7-T42	4.69e-01 (7.45e-01)	1.35e+01 (6.19e+00) -	5.78e+00 (8.10e-01) -	3.09e+00 (7.83e-01) -	1.83e+01 (7.88e+00) -	2.33e+01 (1.46e+01) -
WCCI20-MaTSO7-T43	9.40e-06 (6.65e-06)	2.21e+00 (8.48e-01) -	2.06e-01 (6.26e-02) -	7.01e-02 (4.23e-02) -	9.91e+00 (8.44e+00) -	9.40e+00 (8.33e+00) -
WCCI20-MaTSO7-T44	3.74e+02 (1.64e+01)	2.52e+02 (9.84e+01) +	4.12e+02 (1.57e+01) -	4.04e+02 (1.75e+01) -	4.05e+02 (2.35e+01) -	4.10e+02 (2.33e+01) -
WCCI20-MaTSO7-T45	3.90e-01 (4.66e-01)	1.32e+01 (5.59e+00) -	5.78e+00 (9.70e-01) -	3.07e+00 (7.80e-01) -	2.61e+01 (1.53e+01) -	2.19e+01 (1.21e+01) -
WCCI20-MaTSO7-T46	1.12e-05 (5.48e-06)	2.60e+00 (7.55e-01) -	2.47e-01 (2.06e-01) -	4.89e-02 (3.34e-02) -	9.09e+00 (8.09e+00) -	1.16e+01 (7.54e+00) -
WCCI20-MaTSO7-T47	3.84e+02 (1.91e+01)	2.72e+02 (8.76e+01) +	4.21e+02 (1.21e+01) -	4.00e+02 (1.58e+01) -	4.10e+02 (1.45e+01) -	4.07e+02 (2.18e+01) -
WCCI20-MaTSO7-T48	4.50e-01 (5.40e-01)	1.38e+01 (5.74e+00) -	5.72e+00 (8.79e-01) -	3.04e+00 (9.15e-01) -	3.00e+01 (1.57e+01) -	2.40e+01 (1.49e+01) -
WCCI20-MaTSO7-T49	8.34e-06 (3.66e-06)	2.41e+00 (6.44e-01) -	2.21e-01 (7.20e-02) -	5.11e-02 (3.86e-02) -	9.57e+00 (7.50e+00) -	1.29e+01 (8.15e+00) -
WCCI20-MaTSO7-T50	3.86e+02 (1.52e+01)	2.89e+02 (1.10e+02) +	4.10e+02 (1.80e+01) -	4.05e+02 (1.35e+01) -	4.06e+02 (1.98e+01) -	4.02e+02 (1.97e+01) -
+/-/=	Base	16/33/1	0/50/0	0/50/0	0/50/0	0/50/0

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO8 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO8 IN TEST SUITE 4.

Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
WCCI20-MaTSO8-T1	1.74e+02 (3.56e+02)	9.60e+02 (1.06e+03) -	4.82e+02 (7.25e+02) -	1.89e+02 (4.60e+02) =	3.65e+02 (1.12e+03) -	6.04e+02 (1.06e+03) -
WCCI20-MaTSO8-T1	3.21e-05 (1.71e-05)	8.38e+00 (8.15e+00) -	1.38e+01 (6.92e+00) -	1.22e+00 (2.32e+00) -	2.03e+01 (3.87e+00) -	1.69e+01 (7.79e+00) -
WCCI20-MaTSO8-T2	3.83e+02 (1.62e+01)	3.38e+02 (1.41e+02) +	4.08e+02 (1.63e+01) -	3.99e+02 (1.66e+01) -	4.08e+02 (1.69e+01) -	4.05e+01 (7.79e+00) -
	2.26e-06 (1.52e-06)		` /	, ,	4.08e+02 (1.69e+01) - 4.26e-03 (1.50e-03) -	
WCCI20-MaTSO8-T4		1.96e-01 (3.26e-01) -	1.22e-02 (2.80e-03) -	1.94e-03 (8.44e-04) -		4.32e-03 (1.38e-03) -
WCCI20-MaTSO8-T5	2.02e+00 (1.02e+00)	2.43e+01 (8.99e+00) -	3.12e+01 (1.22e+01) -	9.94e+00 (5.89e+00) -	2.19e+01 (1.07e+01) -	2.16e+01 (8.92e+00) -
WCCI20-MaTSO8-T6	8.71e+01 (1.06e+02)	1.23e+03 (2.87e+03) -	3.04e+02 (2.55e+02) -	1.59e+02 (1.88e+02) -	5.68e+02 (1.10e+03) -	1.76e+02 (2.11e+02) -
WCCI20-MaTSO8-T7	1.40e-05 (8.38e-06)	5.13e+00 (4.64e+00) -	2.43e+00 (1.50e+00) -	2.62e-01 (4.58e-01) -	2.06e+01 (2.08e+00) -	1.96e+01 (4.51e+00) -
WCCI20-MaTSO8-T8	3.84e+02 (1.98e+01)	3.67e+02 (1.13e+02) =	4.10e+02 (2.66e+01) -	4.05e+02 (1.79e+01) -	4.10e+02 (1.67e+01) -	4.05e+02 (2.16e+01) -
WCCI20-MaTSO8-T9	4.95e-04 (2.21e-03)	1.18e-01 (2.50e-01) -	1.03e-02 (2.84e-03) -	2.26e-03 (7.83e-04) -	4.09e-03 (1.32e-03) -	3.70e-03 (1.41e-03) -
WCCI20-MaTSO8-T10	3.31e+00 (1.55e+00)	2.44e+01 (6.53e+00) -	3.16e+01 (1.47e+01) -	1.28e+01 (5.23e+00) -	2.43e+01 (1.21e+01) -	2.44e+01 (7.86e+00) -
WCCI20-MaTSO8-T11	4.78e+01 (7.11e-01)	1.92e+03 (3.87e+03) -	5.65e+02 (1.28e+03) -	2.60e+02 (4.62e+02) -	1.72e+02 (1.80e+02) -	3.52e+02 (1.03e+03) -
WCCI20-MaTSO8-T12	1.14e-05 (8.39e-06)	5.26e+00 (4.74e+00) -	3.94e+00 (2.71e+00) -	1.08e+00 (3.82e+00) -	1.90e+01 (5.48e+00) -	1.91e+01 (4.81e+00) -
WCCI20-MaTSO8-T13	3.82e+02 (1.27e+01)	3.72e+02 (9.95e+01) =	4.14e+02 (1.52e+01) -	4.07e+02 (1.33e+01) -	4.06e+02 (1.43e+01) -	4.16e+02 (1.79e+01) -
WCCI20-MaTSO8-T14	2.21e-06 (1.96e-06)	1.49e-01 (2.84e-01) -	1.28e-02 (4.42e-03) -	2.60e-03 (1.19e-03) -	4.48e-03 (2.65e-03) -	3.96e-03 (1.05e-03) -
WCCI20-MaTSO8-T15	2.48e+00 (2.34e+00)	2.81e+01 (1.21e+01) -	2.51e+01 (6.15e+00) -	1.28e+01 (5.94e+00) -	2.99e+01 (1.49e+01) -	2.72e+01 (1.03e+01) -
WCCI20-MaTSO8-T16	1.19e+02 (1.15e+02)	9.12e+02 (1.57e+03) -	2.48e+02 (3.39e+02) -	5.22e+02 (1.11e+03) =	9.03e+02 (1.36e+03) -	7.18e+02 (1.38e+03) -
WCCI20-MaTSO8-T17	1.75e-05 (8.89e-06)	4.56e+00 (3.30e+00) -	4.22e+00 (4.50e+00) -	4.77e-01 (1.17e+00) -	1.93e+01 (5.58e+00) -	2.09e+01 (9.63e-01) -
WCCI20-MaTSO8-T18	3.81e+02 (1.74e+01)	3.59e+02 (1.31e+02) =	4.09e+02 (2.06e+01) -	4.05e+02 (1.89e+01) -	4.07e+02 (2.04e+01) -	4.03e+02 (1.97e+01) -
WCCI20-MaTSO8-T19	4.08e-06 (2.29e-06)	6.30e-02 (9.50e-02) -	1.29e-02 (6.89e-03) -	1.85e-03 (7.28e-04) -	3.66e-03 (1.18e-03) -	3.47e-03 (1.34e-03) -
WCCI20-MaTSO8-T20	2.30e+00 (2.00e+00)	2.81e+01 (1.01e+01) -	2.53e+01 (1.20e+01) -	1.55e+01 (3.32e+00) -	2.19e+01 (7.92e+00) -	2.12e+01 (1.13e+01) -
WCCI20-MaTSO8-T21	4.81e+01 (8.54e-01)	9.00e+03 (1.50e+04) -	3.48e+02 (3.92e+02) -	2.92e+02 (6.95e+02) -	2.36e+02 (2.63e+02) -	3.06e+02 (8.39e+02) -
WCCI20-MaTSO8-T22	1.78e-05 (8.72e-06)	6.21e+00 (6.60e+00) -	1.14e+01 (6.50e+00) -	4.47e-01 (8.06e-01) -	2.11e+01 (3.15e-01) -	1.96e+01 (4.89e+00) -
WCCI20-MaTSO8-T23	3.82e+02 (1.23e+01)	3.28e+02 (1.48e+02) =	4.11e+02 (1.44e+01) -	3.97e+02 (1.62e+01) -	4.03e+02 (1.88e+01) -	4.04e+02 (2.25e+01) -
WCCI20-MaTSO8-T24	4.76e-06 (3.38e-06)	5.35e-02 (8.57e-02) -	1.28e-02 (6.25e-03) -	1.89e-03 (1.06e-03) -	4.82e-03 (2.20e-03) -	4.72e-03 (2.08e-03) -
WCCI20-MaTSO8-T25	2.80e+00 (2.01e+00)	2.58e+01 (6.83e+00) -	3.71e+01 (1.55e+01) -	1.25e+01 (5.91e+00) -	2.60e+01 (1.29e+01) -	2.22e+01 (8.04e+00) -
WCCI20-MaTSO8-T26	4.44e+02 (7.00e+02)	1.08e+03 (1.15e+03) -	8.88e+02 (1.87e+03) =	3.20e+02 (6.69e+02) =	1.04e+03 (2.06e+03) =	8.19e+02 (1.90e+03) =
WCCI20-MaTSO8-T27	1.81e-05 (1.07e-05)	4.12e+00 (3.10e+00) -	6.85e+00 (5.88e+00) -	2.78e-01 (2.29e-01) -	2.01e+01 (3.21e+00) -	1.87e+01 (6.26e+00) -
WCCI20-MaTSO8-T28	3.79e+02 (1.66e+01)	3.60e+02 (1.76e+02) =	4.18e+02 (1.94e+01) -	4.04e+02 (1.21e+01) -	4.07e+02 (1.31e+01) -	4.09e+02 (2.16e+01) -
WCCI20-MaTSO8-T29	2.57e-06 (1.04e-06)	4.59e-02 (5.62e-02) -	1.33e-02 (6.19e-03) -	1.55e-03 (4.85e-04) -	4.24e-03 (1.33e-03) -	3.96e-03 (1.40e-03) -
WCCI20-MaTSO8-T30	2.31e+00 (2.15e+00)	2.64e+01 (7.55e+00) -	3.41e+01 (1.47e+01) -	1.12e+01 (4.41e+00) -	1.87e+01 (6.82e+00) -	2.14e+01 (9.31e+00) -
WCCI20-MaTSO8-T31	3.46e+02 (6.53e+02)	2.18e+03 (2.02e+03) -	6.02e+02 (1.06e+03) -	7.87e+02 (1.50e+03) =	7.23e+02 (1.53e+03) -	3.77e+02 (9.00e+02) -
WCCI20-MaTSO8-T32	2.29e-05 (2.37e-05)	6.61e+00 (6.68e+00) -	1.15e+01 (7.02e+00) -	3.83e-01 (3.81e-01) -	2.01e+01 (2.66e+00) -	2.00e+01 (3.68e+00) -
WCCI20-MaTSO8-T33	3.80e+02 (1.85e+01)	3.71e+02 (1.22e+02) =	4.13e+02 (1.97e+01) -	4.03e+02 (1.80e+01) -	4.09e+02 (1.30e+01) -	4.10e+02 (2.00e+01) -
WCCI20-MaTSO8-T34	1.83e-06 (1.60e-06)	1.02e-01 (1.86e-01) -	1.19e-02 (4.25e-03) -	1.60e-03 (8.34e-04) -	4.37e-03 (1.62e-03) -	5.16e-03 (2.36e-03) -
WCCI20-MaTSO8-T35	1.71e+00 (1.82e+00)	2.69e+01 (7.75e+00) -	3.13e+01 (1.37e+01) -	1.11e+01 (5.54e+00) -	2.24e+01 (8.21e+00) -	2.29e+01 (1.00e+01) -
WCCI20-MaTSO8-T36	2.32e+02 (4.24e+02)	3.31e+03 (7.57e+03) -	1.31e+03 (1.98e+03) -	3.05e+02 (4.91e+02) =	5.83e+02 (1.18e+03) -	6.68e+02 (1.68e+03) -
WCCI20-MaTSO8-T37	2.39e-05 (1.36e-05)	8.40e+00 (7.53e+00) -	1.10e+01 (7.32e+00) -	3.91e-01 (4.26e-01) -	2.05e+01 (2.80e+00) -	1.90e+01 (4.81e+00) -
WCCI20-MaTSO8-T38	3.86e+02 (1.75e+01)	3.57e+02 (1.56e+02) =	4.11e+02 (1.96e+01) -	4.02e+02 (1.78e+01) -	4.07e+02 (1.97e+01) -	4.09e+02 (1.34e+01) -
WCCI20-MaTSO8-T39	2.59e-06 (2.46e-06)	1.88e-01 (3.12e-01) -	1.03e-02 (3.30e-03) -	1.96e-03 (8.50e-04) -	4.02e-03 (1.54e-03) -	3.99e-03 (1.72e-03) -
WCCI20-MaTSO8-T40	2.14e+00 (1.90e+00)	2.51e+01 (7.21e+00) -	2.75e+01 (1.11e+01) -	1.20e+01 (6.24e+00) -	2.31e+01 (1.09e+01) -	2.22e+01 (1.25e+01) -
WCCI20-MaTSO8-T41	5.85e+02 (7.80e+02)	1.55e+03 (2.01e+03) -	2.70e+02 (4.30e+02) =	3.53e+02 (8.39e+02) =	5.74e+02 (1.07e+03) =	4.12e+02 (6.83e+02) =
WCCI20-MaTSO8-T42	1.20e-05 (1.07e-05)	3.46e+00 (1.60e+00) -	1.13e+01 (7.72e+00) -	2.40e-01 (1.63e-01) -	1.92e+01 (5.97e+00) -	2.09e+01 (1.13e+00) -
WCCI20-MaTSO8-T43	3.85e+02 (1.76e+01)	3.99e+02 (1.72e+02) =	4.08e+02 (1.89e+01) -	4.01e+02 (2.16e+01) -	4.07e+02 (1.85e+01) -	4.05e+02 (1.45e+01) -
WCCI20-MaTSO8-T44	3.05e-06 (1.58e-06)	1.13e-01 (1.84e-01) -	1.24e-02 (3.79e-03) -	2.34e-03 (1.15e-03) -	4.93e-03 (2.16e-03) -	3.87e-03 (1.30e-03) -
WCCI20-MaTSO8-T45	2.71e+00 (2.17e+00)	2.72e+01 (8.49e+00) -	3.14e+01 (1.31e+01) -	8.64e+00 (8.31e+00) -	2.35e+01 (1.33e+01) -	2.54e+01 (1.00e+01) -
WCCI20-MaTSO8-T46	7.74e+01 (9.99e+01)	1.28e+03 (3.23e+03) -	5.03e+02 (1.02e+03) -	2.49e+02 (3.22e+02) -	8.31e+01 (6.26e+01) -	2.48e+02 (4.71e+02) -
WCCI20-MaTSO8-T47	2.00e-05 (1.53e-05)	7.51e+00 (7.36e+00) -	6.68e+00 (6.03e+00) -	1.84e-01 (1.77e-01) -	1.92e+01 (4.90e+00) -	2.11e+01 (5.19e-02) -
WCCI20-MaTSO8-T48	3.81e+02 (1.19e+01)	3.72e+02 (1.85e+02) =	4.20e+02 (1.63e+01) -	3.99e+02 (2.03e+01) -	4.13e+02 (1.41e+01) -	4.03e+02 (2.01e+01) -
WCCI20-MaTSO8-T49	2.06e-06 (8.40e-07)	3.12e-02 (4.92e-02) -	1.35e-02 (5.63e-03) -	2.10e-03 (1.21e-03) -	3.92e-03 (1.70e-03) -	4.32e-03 (1.34e-03) -
WCCI20-MaTSO8-T50	1.59e+00 (1.06e+00)	2.51e+01 (8.34e+00) -	2.92e+01 (1.51e+01) -	1.18e+01 (4.27e+00) -	2.33e+01 (7.30e+00) -	2.59e+01 (1.57e+01) -
+/-/=	Base	1/40/9	0/48/2	0/44/6	0/48/2	0/48/2
	l Base	17.1072	0, 10, 2	0, 1, 1, 0	0, 10, 2	0,10,2

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO9 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO9 IN TEST SUITE 4.

		. T. 1700	V 500 D	an.o.	77.67	200
Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
WCCI20-MaTSO9-T1	3.90e+02 (6.11e+02)	7.96e+03 (3.25e+04) -	6.84e+02 (1.21e+03) =	4.39e+02 (7.63e+02) =	1.85e+02 (2.42e+02) =	1.40e+03 (2.59e+03) -
WCCI20-MaTSO9-T2	1.73e-05 (7.47e-06)	6.36e+00 (7.11e+00) -	7.11e+00 (4.81e+00) -	4.23e+00 (7.74e+00) -	1.86e+01 (5.92e+00) -	1.89e+01 (5.50e+00) -
WCCI20-MaTSO9-T3	3.84e+02 (1.64e+01)	3.47e+02 (1.37e+02) =	4.18e+02 (1.61e+01) -	4.06e+02 (1.82e+01) -	3.99e+02 (2.48e+01) -	4.09e+02 (1.87e+01) -
WCCI20-MaTSO9-T4	8.96e-07 (6.22e-07)	1.01e-01 (1.77e-01) -	1.51e-02 (6.34e-03) -	1.80e-03 (7.61e-04) -	4.54e-03 (2.14e-03) -	4.70e-03 (1.80e-03) -
WCCI20-MaTSO9-T5	3.13e+00 (1.46e+00)	2.02e+01 (8.13e+00) -	3.30e+01 (1.42e+01) -	1.09e+01 (4.71e+00) -	2.35e+01 (1.12e+01) -	2.33e+01 (9.48e+00) -
WCCI20-MaTSO9-T6	9.99e+03 (3.39e+03)	8.64e+03 (3.36e+03) =	1.21e+04 (3.69e+02) -	1.21e+04 (3.87e+02) -	1.19e+04 (4.19e+02) -	1.19e+04 (4.48e+02) -
WCCI20-MaTSO9-T7	7.74e+01 (9.80e+01)	6.30e+03 (1.91e+04) -	4.06e+02 (9.09e+02) -	4.97e+02 (1.29e+03) -	3.08e+02 (5.17e+02) -	1.16e+02 (1.50e+02) -
WCCI20-MaTSO9-T8	3.14e-05 (3.09e-05)	2.92e+00 (2.26e+00) -	4.80e+00 (4.79e+00) -	4.41e-01 (5.66e-01) -	1.85e+01 (6.30e+00) -	1.92e+01 (4.68e+00) -
WCCI20-MaTSO9-T9	3.83e+02 (1.40e+01)	3.75e+02 (1.27e+02) =	4.08e+02 (1.79e+01) -	4.06e+02 (1.73e+01) -	4.07e+02 (1.51e+01) -	4.16e+02 (1.35e+01) -
WCCI20-MaTSO9-T10	4.46e-06 (4.80e-06)	4.76e-02 (9.58e-02) -	1.15e-02 (4.04e-03) -	1.97e-03 (8.23e-04) -	4.05e-03 (1.49e-03) -	4.75e-03 (1.27e-03) -
WCCI20-MaTSO9-T11	1.88e+00 (1.50e+00)	2.36e+01 (8.74e+00) -	3.05e+01 (1.31e+01) -	1.20e+01 (4.68e+00) -	2.56e+01 (9.89e+00) -	2.29e+01 (9.59e+00) -
WCCI20-MaTSO9-T12	1.14e+04 (6.88e+02)	1.06e+04 (3.00e+03) =	1.21e+04 (4.92e+02) -	1.20e+04 (4.84e+02) -	1.15e+04 (7.17e+02) =	1.18e+04 (6.00e+02) -
WCCI20-MaTSO9-T13	6.05e+01 (5.57e+01)	4.18e+02 (4.37e+02) -	4.06e+02 (1.01e+03) -	2.95e+02 (5.66e+02) -	8.19e+02 (1.06e+03) -	2.59e+02 (4.76e+02) -
WCCI20-MaTSO9-T14	8.12e-06 (5.45e-06)	2.97e+00 (1.57e+00) -	4.20e+00 (4.64e+00) -	1.04e+00 (1.64e+00) -	1.69e+01 (7.40e+00) -	1.93e+01 (4.26e+00) -
WCCI20-MaTSO9-T15	3.87e+02 (2.10e+01)	3.81e+02 (1.66e+02) =	4.17e+02 (1.17e+01) -	4.08e+02 (1.33e+01) -	4.02e+02 (1.84e+01) -	4.03e+02 (1.95e+01) -
WCCI20-MaTSO9-T16	1.41e-06 (1.10e-06)	2.45e-01 (3.58e-01) -	1.13e-02 (3.64e-03) -	1.69e-03 (7.50e-04) -	3.93e-03 (1.18e-03) -	3.71e-03 (1.64e-03) -
WCCI20-MaTSO9-T17	1.58e+00 (1.57e+00)	2.15e+01 (5.74e+00) -	2.63e+01 (1.30e+01) -	1.29e+01 (4.06e+00) -	2.46e+01 (9.94e+00) -	1.95e+01 (8.59e+00) -
WCCI20-MaTSO9-T18	1.09e+04 (2.37e+03)	1.03e+04 (2.90e+03) =	1.20e+04 (5.84e+02) -	1.18e+04 (7.21e+02) -	1.17e+04 (6.80e+02) =	1.19e+04 (6.53e+02) -
WCCI20-MaTSO9-T19	8.68e+01 (8.68e+01)	1.31e+03 (1.93e+03) -	4.82e+02 (7.80e+02) -	9.07e+01 (6.86e+01) -	3.22e+02 (6.63e+02) -	1.94e+02 (1.72e+02) -
WCCI20-MaTSO9-T20	1.93e-05 (1.34e-05)	9.18e+00 (8.50e+00) -	1.42e+01 (6.56e+00) -	2.11e+00 (4.71e+00) -	2.04e+01 (3.10e+00) -	2.09e+01 (9.64e-01) -
WCCI20-MaTSO9-T21	3.84e+02 (1.90e+01)	3.54e+02 (1.57e+02) =	4.11e+02 (1.83e+01) -	4.06e+02 (1.27e+01) -	4.11e+02 (1.20e+01) -	4.06e+02 (1.72e+01) -
WCCI20-MaTSO9-T22	2.93e-06 (1.74e-06)	1.96e-01 (2.54e-01) -	1.33e-02 (4.07e-03) -	2.01e-03 (1.18e-03) -	4.23e-03 (1.28e-03) -	4.20e-03 (1.82e-03) -
WCCI20-MaTSO9-T23	3.60e+00 (2.28e+00)	2.42e+01 (1.13e+01) -	2.70e+01 (9.94e+00) -	1.35e+01 (4.27e+00) -	2.40e+01 (1.10e+01) -	2.17e+01 (6.54e+00) -
WCCI20-MaTSO9-T24	1.03e+04 (2.77e+03)	9.72e+03 (3.32e+03) =	1.21e+04 (5.46e+02) -	1.18e+04 (4.51e+02) -	1.19e+04 (4.88e+02) -	1.17e+04 (6.74e+02) -
WCCI20-MaTSO9-T25	3.90e+02 (4.95e+02)	1.58e+03 (1.76e+03) -	8.51e+02 (1.36e+03) =	2.55e+02 (4.59e+02) =	6.75e+02 (1.27e+03) =	4.81e+02 (5.11e+02) =
WCCI20-MaTSO9-T26	2.29e-05 (8.17e-06)	6.82e+00 (6.01e+00) -	1.71e+01 (6.47e+00) -	2.95e+00 (6.12e+00) -	2.03e+01 (4.06e+00) -	2.11e+01 (3.98e-02) -
WCCI20-MaTSO9-T27	3.74e+02 (1.67e+01)	3.59e+02 (1.25e+02) =	4.11e+02 (2.08e+01) -	4.06e+02 (1.53e+01) -	4.08e+02 (2.05e+01) -	4.06e+02 (1.70e+01) -
WCCI20-MaTSO9-T28	2.49e-06 (2.96e-06)	9.15e-02 (1.35e-01) -	1.03e-02 (2.98e-03) -	2.13e-03 (1.14e-03) -	3.67e-03 (1.33e-03) -	4.34e-03 (1.51e-03) -
WCCI20-MaTSO9-T29	2.78e+00 (1.49e+00)	2.70e+01 (7.07e+00) -	3.38e+01 (1.19e+01) -	1.27e+01 (6.30e+00) -	2.29e+01 (6.66e+00) -	2.20e+01 (9.49e+00) -
WCCI20-MaTSO9-T30	1.14e+04 (1.81e+03)	1.02e+04 (2.79e+03) =	1.22e+04 (5.81e+02) -	1.21e+04 (5.43e+02) -	1.20e+04 (5.07e+02) =	1.22e+04 (4.47e+02) -
WCCI20-MaTSO9-T31	1.31e+02 (2.57e+02)	1.22e+03 (1.49e+03) -	8.16e+02 (1.10e+03) -	7.88e+02 (1.33e+03) -	3.04e+02 (5.09e+02) -	7.44e+02 (1.34e+03) -
WCCI20-MaTSO9-T32	1.21e-05 (1.00e-05)	5.50e+00 (6.07e+00) -	1.23e+01 (7.55e+00) -	4.99e-01 (6.36e-01) -	1.97e+01 (3.61e+00) -	2.08e+01 (1.43e+00) -
WCCI20-MaTSO9-T33	3.87e+02 (1.51e+01)	3.61e+02 (1.60e+02) =	4.16e+02 (1.36e+01) -	4.08e+02 (1.42e+01) -	4.06e+02 (1.53e+01) -	4.05e+02 (2.14e+01) -
WCCI20-MaTSO9-T34	3.07e-06 (1.98e-06)	1.22e-01 (1.83e-01) -	1.24e-02 (3.47e-03) -	2.00e-03 (8.92e-04) -	4.66e-03 (1.53e-03) -	4.52e-03 (1.66e-03) -
WCCI20-MaTSO9-T35	3.20e+00 (2.35e+00)	3.26e+01 (1.13e+01) -	2.86e+01 (1.13e+01) -	1.40e+01 (5.77e+00) -	2.74e+01 (1.22e+01) -	2.02e+01 (9.47e+00) -
WCCI20-MaTSO9-T36	1.06e+04 (3.24e+03)	9.91e+03 (3.20e+03) =	1.20e+04 (6.35e+02) -	1.19e+04 (5.87e+02) =	1.19e+04 (5.81e+02) =	1.20e+04 (6.45e+02) -
WCCI20-MaTSO9-T37	7.57e+01 (1.12e+02)	9.92e+02 (2.33e+03) -	1.43e+02 (1.21e+02) -	1.67e+02 (1.54e+02) -	6.18e+02 (1.26e+03) -	6.14e+02 (1.12e+03) -
WCCI20-MaTSO9-T38	1.74e-05 (1.07e-05)	7.13e+00 (7.30e+00) -	1.18e+01 (7.22e+00) -	1.82e+00 (4.82e+00) -	1.98e+01 (4.31e+00) -	1.96e+01 (4.64e+00) -
WCCI20-MaTSO9-T39	3.87e+02 (1.72e+01)	3.81e+02 (1.73e+02) =	4.18e+02 (1.29e+01) -	4.01e+02 (1.77e+01) -	4.09e+02 (1.91e+01) -	4.07e+02 (1.71e+01) -
WCCI20-MaTSO9-T40	1.45e-06 (1.15e-06)	1.80e-01 (2.93e-01) -	1.07e-02 (3.98e-03) -	2.09e-03 (1.00e-03) -	3.84e-03 (1.69e-03) -	3.45e-03 (1.85e-03) -
WCCI20-MaTSO9-T41	2.54e+00 (2.68e+00)	2.24e+01 (7.78e+00) -	2.75e+01 (1.09e+01) -	8.57e+00 (3.80e+00) -	2.25e+01 (1.04e+01) -	2.67e+01 (1.10e+01) -
WCCI20-MaTSO9-T42	1.12e+04 (6.74e+02)	9.28e+03 (3.61e+03) =	1.18e+04 (5.38e+02) -	1.18e+04 (6.51e+02) -	1.16e+04 (5.78e+02) -	1.17e+04 (5.38e+02) -
WCCI20-MaTSO9-T43	3.02e+02 (8.65e+02)	9.73e+02 (1.03e+03) -	8.95e+02 (1.31e+03) -	3.27e+02 (6.30e+02) -	7.20e+02 (1.37e+03) -	7.02e+02 (1.45e+03) -
WCCI20-MaTSO9-T44	1.37e-05 (1.53e-05)	5.63e+00 (6.57e+00) -	1.10e+01 (6.49e+00) -	2.63e-01 (1.95e-01) -	1.95e+01 (4.22e+00) -	1.86e+01 (6.10e+00) -
WCCI20-MaTSO9-T45	3.78e+02 (2.29e+01)	3.34e+02 (1.63e+02) =	4.11e+02 (1.77e+01) -	4.11e+02 (1.08e+01) -	4.08e+02 (1.98e+01) -	4.05e+02 (1.62e+01) -
WCCI20-MaTSO9-T46	3.63e-06 (2.28e-06)	9.97e-02 (1.71e-01) -	1.22e-02 (5.41e-03) -	1.79e-03 (7.03e-04) -	4.64e-03 (1.75e-03) -	4.21e-03 (8.86e-04) -
WCCI20-MaTSO9-T47	2.66e+00 (1.60e+00)	2.24e+01 (6.05e+00) -	2.43e+01 (9.21e+00) -	1.19e+01 (6.60e+00) -	2.53e+01 (9.75e+00) -	2.58e+01 (1.02e+01) -
WCCI20-MaTSO9-T48	1.14e+04 (5.82e+02)	1.08e+04 (2.71e+03) =	1.20e+04 (4.00e+02) -	1.20e+04 (4.81e+02) -	1.20e+04 (8.00e+02) -	1.22e+04 (3.02e+02) -
WCCI20-MaTSO9-T49	6.66e+01 (5.33e+01)	7.01e+02 (9.06e+02) -	2.60e+02 (3.78e+02) -	4.95e+02 (1.10e+03) -	2.71e+02 (4.91e+02) -	4.93e+02 (1.10e+03) -
WCCI20-MaTSO9-T50	1.13e-05 (5.95e-06)	9.19e+00 (8.29e+00) -	1.33e+01 (7.12e+00) -	1.06e+00 (1.69e+00) -	2.06e+01 (1.70e+00) -	1.79e+01 (6.66e+00) -
+/-/=	Base	0/34/16	0/48/2	0/47/3	0/44/6	0/49/1
17.7-	l Buse	0/5-1/10	0/10/2	0/1/13	0/11/0	0/12/1

COMPARISON OF KR-MTDE, AEMTO, MATDE, SBO, EMEA, AND DE IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO10 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTDE(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO10 IN TEST SUITE 4.

D 11	UD MEDE	AFMTO	M TDE	CDO	EMEA	DE
Problem	KR-MTDE	AEMTO	MaTDE	SBO	EMEA	DE
WCCI20-MaTSO10-T1	1.50e-05 (6.28e-06)	7.20e+00 (7.27e+00) -	7.31e+00 (5.90e+00) -	1.06e-02 (3.81e-03) -	2.05e+01 (2.89e+00) -	1.97e+01 (4.84e+00) -
WCCI20-MaTSO10-T2	3.85e+02 (1.59e+01)	3.62e+02 (1.40e+02) =	4.14e+02 (1.29e+01) -	4.04e+02 (1.14e+01) -	4.02e+02 (1.84e+01) -	4.04e+02 (1.68e+01) -
WCCI20-MaTSO10-T3	4.23e-06 (5.58e-06)	1.18e-01 (2.03e-01) -	1.30e-02 (4.81e-03) -	1.82e-03 (5.68e-04) -	4.19e-03 (1.93e-03) -	3.89e-03 (1.13e-03) -
WCCI20-MaTSO10-T4	3.28e+00 (3.38e+00)	2.95e+01 (8.60e+00) -	2.79e+01 (1.29e+01) -	1.21e+01 (5.20e+00) -	2.08e+01 (9.54e+00) -	2.60e+01 (1.24e+01) -
WCCI20-MaTSO10-T5	1.15e+04 (6.08e+02)	8.92e+03 (3.76e+03) =	1.20e+04 (6.13e+02) -	1.20e+04 (7.17e+02) -	1.20e+04 (5.14e+02) -	1.17e+04 (6.58e+02) =
WCCI20-MaTSO10-T6	1.30e-05 (6.97e-06)	4.96e+00 (5.52e+00) -	1.22e+01 (7.22e+00) -	3.07e+00 (6.55e+00) -	2.03e+01 (2.47e+00) -	2.01e+01 (4.02e+00) -
WCCI20-MaTSO10-T7	3.80e+02 (1.35e+01)	3.69e+02 (1.38e+02) =	4.07e+02 (1.91e+01) -	4.07e+02 (1.24e+01) -	4.04e+02 (1.69e+01) -	4.09e+02 (1.37e+01) -
WCCI20-MaTSO10-T8	3.30e-06 (2.29e-06)	8.49e-02 (1.27e-01) -	1.61e-02 (1.48e-02) -	2.16e-03 (1.01e-03) -	4.93e-03 (2.97e-03) -	4.13e-03 (1.34e-03) -
WCCI20-MaTSO10-T9	2.33e+00 (1.55e+00)	2.43e+01 (8.98e+00) -	2.78e+01 (1.00e+01) -	1.14e+01 (3.78e+00) -	2.38e+01 (1.37e+01) -	2.81e+01 (1.48e+01) -
WCCI20-MaTSO10-T10	1.19e+04 (6.37e+02)	1.12e+04 (3.20e+03) =	1.24e+04 (6.30e+02) -	1.23e+04 (4.53e+02) =	1.23e+04 (5.48e+02) =	1.24e+04 (5.31e+02) -
WCCI20-MaTSO10-T11	3.06e-05 (2.03e-05)	8.47e+00 (8.11e+00) -	1.62e+01 (7.45e+00) -	2.84e+00 (4.96e+00) -	1.92e+01 (5.36e+00) -	2.05e+01 (2.11e+00) -
WCCI20-MaTSO10-T12	3.83e+02 (2.11e+01)	3.75e+02 (1.07e+02) =	4.09e+02 (1.60e+01) -	4.04e+02 (1.79e+01) -	4.12e+02 (1.31e+01) -	4.05e+02 (1.64e+01) -
WCCI20-MaTSO10-T13	1.79e-06 (1.66e-06)	1.78e-01 (2.97e-01) -	1.25e-02 (4.77e-03) -	2.48e-03 (1.44e-03) -	4.59e-03 (1.95e-03) -	4.26e-03 (1.28e-03) -
WCCI20-MaTSO10-T14	3.32e+00 (2.25e+00)	3.03e+01 (1.40e+01) -	3.51e+01 (1.64e+01) -	1.28e+01 (6.02e+00) -	2.57e+01 (1.18e+01) -	2.33e+01 (1.09e+01) -
WCCI20-MaTSO10-T15	1.12e+04 (7.53e+02)	9.21e+03 (3.38e+03) =	1.19e+04 (4.64e+02) -	1.17e+04 (8.02e+02) -	1.19e+04 (5.08e+02) -	1.19e+04 (6.28e+02) -
WCCI20-MaTSO10-T16	1.76e-05 (1.13e-05)	1.18e+01 (9.27e+00) -	1.81e+01 (5.25e+00) -	6.27e+00 (8.94e+00) -	2.02e+01 (4.47e+00) -	2.12e+01 (3.75e-02) -
WCCI20-MaTSO10-T17	3.88e+02 (1.47e+01)	4.62e+02 (2.04e+02) =	4.14e+02 (1.85e+01) -	3.96e+02 (2.14e+01) =	4.14e+02 (1.71e+01) -	4.05e+02 (2.06e+01) -
WCCI20-MaTSO10-T18	2.93e-06 (1.58e-06)	6.46e-02 (1.18e-01) -	1.40e-02 (5.05e-03) -	2.13e-03 (1.08e-03) -	5.24e-03 (2.50e-03) -	4.21e-03 (1.38e-03) -
WCCI20-MaTSO10-T19	2.93e+00 (2.52e+00)	2.73e+01 (8.43e+00) -	2.84e+01 (1.23e+01) -	1.10e+01 (6.01e+00) -	1.73e+01 (5.95e+00) -	1.97e+01 (7.55e+00) -
WCCI20-MaTSO10-T20	1.18e+04 (4.54e+02)	1.04e+04 (2.64e+03) +	1.22e+04 (4.95e+02) -	1.18e+04 (6.43e+02) =	1.20e+04 (7.56e+02) =	1.18e+04 (7.84e+02) =
WCCI20-MaTSO10-T21	1.84e-05 (1.02e-05)	5.30e+00 (5.41e+00) -	5.45e+00 (5.87e+00) -	5.16e-01 (1.09e+00) -	1.91e+01 (4.34e+00) -	2.07e+01 (1.85e+00) -
WCCI20-MaTSO10-T22	3.83e+02 (2.03e+01)	3.63e+02 (1.79e+02) =	4.11e+02 (1.45e+01) -	4.00e+02 (1.22e+01) -	4.10e+02 (1.70e+01) -	4.10e+02 (1.33e+01) -
WCCI20-MaTSO10-T23	2.45e-06 (1.61e-06)	1.49e-01 (2.52e-01) -	1.40e-02 (4.71e-03) -	1.94e-03 (7.76e-04) -	4.00e-03 (1.08e-03) -	3.85e-03 (1.74e-03) -
WCCI20-MaTSO10-T24	2.40e+00 (1.64e+00)	2.47e+01 (6.42e+00) -	2.69e+01 (1.15e+01) -	1.17e+01 (5.62e+00) -	2.18e+01 (8.69e+00) -	2.34e+01 (1.10e+01) -
WCCI20-MaTSO10-T25	1.14e+04 (5.93e+02)	9.97e+03 (2.78e+03) =	1.17e+04 (5.72e+02) =	1.18e+04 (5.92e+02) -	1.15e+04 (8.86e+02) =	1.17e+04 (7.56e+02) =
WCCI20-MaTSO10-T26	3.19e-05 (3.71e-05)	7.15e+00 (7.60e+00) -	1.61e+01 (6.18e+00) -	3.73e+00 (7.51e+00) -	2.06e+01 (2.69e+00) -	2.03e+01 (2.81e+00) -
WCCI20-MaTSO10-T27	3.85e+02 (1.67e+01)	4.53e+02 (1.12e+02) -	4.16e+02 (1.81e+01) -	4.08e+02 (1.73e+01) -	3.98e+02 (1.80e+01) -	4.07e+02 (1.89e+01) -
WCCI20-MaTSO10-T28	3.71e-04 (1.65e-03)	8.63e-02 (1.88e-01) -	1.51e-02 (8.75e-03) -	1.81e-03 (6.63e-04) -	3.97e-03 (1.20e-03) -	4.42e-03 (2.18e-03) -
WCCI20-MaTSO10-T29	2.92e+00 (1.66e+00)	2.67e+01 (9.04e+00) -	3.14e+01 (1.30e+01) -	1.55e+01 (4.25e+00) -	2.06e+01 (9.51e+00) -	2.46e+01 (1.29e+01) -
WCCI20-MaTSO10-T30	1.14e+04 (5.43e+02)	9.18e+03 (4.10e+03) =	1.18e+04 (4.55e+02) -	1.21e+04 (4.25e+02) -	1.20e+04 (6.67e+02) -	1.20e+04 (4.53e+02) -
WCCI20-MaTSO10-T31	1.51e-05 (8.37e-06)	7.21e+00 (7.55e+00) -	1.20e+01 (6.79e+00) -	2.12e+00 (4.63e+00) -	1.92e+01 (5.35e+00) -	1.81e+01 (6.40e+00) -
WCCI20-MaTSO10-T32	3.93e+02 (1.40e+01)	3.68e+02 (1.29e+02) =	4.08e+02 (1.94e+01) -	4.03e+02 (9.94e+00) -	4.11e+02 (1.75e+01) -	4.06e+02 (1.62e+01) -
WCCI20-MaTSO10-T33	1.16e-06 (7.43e-07)	1.36e-01 (2.82e-01) -	1.22e-02 (4.01e-03) -	2.35e-03 (1.13e-03) -	6.35e-03 (7.95e-03) -	4.33e-03 (1.16e-03) -
WCCI20-MaTSO10-T34	3.08e+00 (1.66e+00)	2.55e+01 (8.02e+00) -	3.28e+01 (1.59e+01) -	1.01e+01 (5.61e+00) -	2.34e+01 (1.11e+01) -	2.78e+01 (1.31e+01) -
WCCI20-MaTSO10-T35	1.11e+04 (1.72e+03)	8.11e+03 (3.36e+03) +	1.19e+04 (5.38e+02) -	1.21e+04 (6.24e+02) -	1.19e+04 (5.90e+02) -	1.16e+04 (7.27e+02) =
WCCI20-MaTSO10-T36	1.74e-05 (9.97e-06)	1.15e+01 (8.01e+00) -	1.30e+01 (7.63e+00) -	2.37e+00 (5.05e+00) -	2.08e+01 (1.31e+00) -	2.01e+01 (3.93e+00) -
WCCI20-MaTSO10-T37	3.80e+02 (1.52e+01)	3.41e+02 (1.16e+02) =	4.14e+02 (1.65e+01) -	3.92e+02 (1.98e+01) -	4.10e+02 (1.46e+01) -	4.05e+02 (1.50e+01) -
WCCI20-MaTSO10-T38	1.28e-06 (8.04e-07)	1.12e-01 (1.56e-01) -	1.32e-02 (5.29e-03) -	2.24e-03 (8.83e-04) -	3.62e-03 (1.26e-03) -	5.08e-03 (1.83e-03) -
WCCI20-MaTSO10-T39	3.04e+00 (2.63e+00)	2.62e+01 (1.09e+01) -	2.42e+01 (7.58e+00) -	1.31e+01 (6.18e+00) -	2.42e+01 (8.89e+00) -	2.32e+01 (1.24e+01) -
WCCI20-MaTSO10-T40	1.16e+04 (6.62e+02)	1.01e+04 (2.89e+03) =	1.21e+04 (6.16e+02) -	1.23e+04 (5.32e+02) -	1.19e+04 (4.78e+02) =	1.20e+04 (5.14e+02) =
WCCI20-MaTSO10-T41	2.43e-05 (1.41e-05)	4.63e+00 (3.89e+00) -	1.69e+01 (6.40e+00) -	2.04e+00 (4.91e+00) -	1.83e+01 (5.85e+00) -	1.96e+01 (4.07e+00) -
WCCI20-MaTSO10-T42	3.85e+02 (1.65e+01)	3.84e+02 (1.25e+02) =	4.08e+02 (1.61e+01) -	4.08e+02 (1.77e+01) -	4.12e+02 (1.13e+01) -	4.10e+02 (1.69e+01) -
WCCI20-MaTSO10-T43	2.02e-06 (2.37e-06)	1.43e-01 (2.00e-01) -	1.26e-02 (5.15e-03) -	1.78e-03 (6.98e-04) -	4.62e-03 (1.74e-03) -	4.41e-03 (1.43e-03) -
WCCI20-MaTSO10-T44	2.23e+00 (1.71e+00)	2.86e+01 (1.01e+01) -	3.04e+01 (9.79e+00) -	1.15e+01 (5.16e+00) -	2.08e+01 (9.92e+00) -	2.24e+01 (7.77e+00) -
WCCI20-MaTSO10-T45	1.02e+04 (3.09e+03)	1.01e+04 (2.98e+03) =	1.21e+04 (4.71e+02) -	1.22e+04 (6.16e+02) -	1.18e+04 (6.75e+02) -	1.18e+04 (6.41e+02) -
WCCI20-MaTSO10-T46	2.24e-05 (1.58e-05)	7.82e+00 (7.92e+00) -	1.57e+01 (6.89e+00) -	9.21e-01 (1.51e+00) -	2.11e+01 (2.85e-01) -	2.12e+01 (2.77e-02) -
WCCI20-MaTSO10-T47	3.82e+02 (2.12e+01)	3.92e+02 (2.46e+02) =	4.11e+02 (1.29e+01) -	4.04e+02 (1.79e+01) -	4.09e+02 (1.59e+01) -	4.10e+02 (1.29e+01) -
WCCI20-MaTSO10-T48	2.34e-06 (1.61e-06)	2.36e-01 (3.25e-01) -	1.29e-02 (4.83e-03) -	2.28e-03 (1.08e-03) -	5.21e-03 (2.32e-03) -	4.19e-03 (2.18e-03) -
WCCI20-MaTSO10-T49	4.15e+00 (2.30e+00)	2.60e+01 (6.94e+00) -	2.98e+01 (1.07e+01) -	1.38e+01 (5.21e+00) -	2.22e+01 (7.95e+00) -	2.39e+01 (1.17e+01) -
WCCI20-MaTSO10-T50	1.06e+04 (2.27e+03)	1.04e+04 (3.18e+03) =	1.16e+04 (5.47e+02) -	1.21e+04 (4.39e+02) -	1.17e+04 (5.67e+02) -	1.15e+04 (5.75e+02) =
+/-/=	Base	2/31/17	0/49/1	0/47/3	0/46/4	0/44/6

COMPARISON OF KR-MTGA, AEMTO, MATGA, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN EACH MTO PROBLEM IN CEC17-MTSO. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA (CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 18 COMPONENT TASKS FROM ALL NINE MTO PROBLEMS IN CEC17-MTSO.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
MTSO1-CI-HS-T1	0.00e+00 (0.00e+00)	6.58e-02 (1.58e-02) -	1.38e-01 (3.34e-02) -	1.86e-01 (4.30e-02) -	1.56e-01 (4.94e-02) -	1.66e-01 (3.52e-02) -
MTSO1-CI-HS-T2	0.00e+00 (0.00e+00)	5.69e+01 (1.14e+01) -	1.16e+02 (4.54e+01) -	1.37e+02 (4.38e+01) -	1.47e+02 (1.27e+02) -	3.43e+02 (5.82e+01) -
MTSO2-CI-MS-T1	1.07e-15 (7.94e-16)	2.32e+00 (3.72e-01) -	2.86e+00 (3.40e-01) -	3.22e+00 (5.81e-01) -	1.35e+00 (1.42e+00) -	3.44e+00 (4.91e-01) -
MTSO2-CI-MS-T2	0.00e+00 (0.00e+00)	5.48e+01 (1.15e+01) -	1.39e+02 (5.26e+01) -	1.53e+02 (4.06e+01) -	1.38e+01 (2.12e+01) -	3.37e+02 (4.92e+01) -
MTSO3-CI-LS-T1	4.81e-14 (6.73e-15)	2.04e+01 (4.65e-01) -	2.10e+01 (3.01e-01) -	2.06e+01 (4.83e-01) -	2.11e+01 (2.46e-01) -	2.11e+01 (2.47e-01) -
MTSO3-CI-LS-T2	6.36e-04 (0.00e+00)	2.72e+03 (5.36e+02) -	3.05e+03 (5.11e+02) -	3.05e+03 (5.06e+02) -	3.05e+03 (4.24e+02) -	2.99e+03 (3.30e+02) -
MTSO4-PI-HS-T1	0.00e+00 (0.00e+00)	3.45e+02 (6.52e+01) -	3.14e+02 (3.27e+01) -	2.91e+02 (4.41e+01) -	2.62e+02 (1.02e+02) -	3.30e+02 (5.74e+01) -
MTSO4-PI-HS-T2	1.01e-08 (3.24e-08)	1.57e+00 (4.13e-01) -	2.78e+00 (1.04e+00) -	2.22e+00 (5.75e-01) -	1.69e+00 (4.86e-01) -	1.91e+00 (5.34e-01) -
MTSO5-PI-MS-T1	4.99e-01 (6.46e-01)	2.65e-01 (5.96e-01) =	1.54e+00 (7.27e-01) -	3.06e+00 (4.79e-01) -	3.09e+00 (4.52e-01) -	3.40e+00 (5.86e-01) -
MTSO5-PI-MS-T2	4.46e+01 (1.05e+01)	9.70e+01 (2.35e+01) -	1.96e+02 (6.05e+01) -	4.27e+02 (8.31e+01) -	2.42e+02 (4.36e+02) -	1.41e+03 (1.63e+03) -
MTSO6-PI-LS-T1	8.88e-16 (0.00e+00)	4.03e+00 (3.81e+00) -	3.28e+00 (3.62e-01) -	3.26e+00 (4.26e-01) -	8.88e-16 (0.00e+00) =	3.24e+00 (4.77e-01) -
MTSO6-PI-LS-T2	1.39e-14 (1.04e-14)	3.66e+00 (2.36e+00) -	3.35e+00 (8.47e-01) -	3.34e+00 (8.73e-01) -	2.09e-05 (5.05e-05) -	1.18e+01 (2.39e+00) -
MTSO7-NI-HS-T1	4.43e+01 (1.04e+01)	2.20e+02 (4.64e+01) -	3.58e+02 (1.31e+02) -	4.71e+02 (1.72e+02) -	1.27e+03 (1.54e+03) -	1.09e+03 (1.15e+03) -
MTSO7-NI-HS-T2	1.91e+00 (8.52e+00)	7.00e+01 (1.94e+01) -	1.65e+02 (6.00e+01) -	2.32e+02 (7.70e+01) -	1.34e+02 (1.26e+02) -	3.40e+02 (5.80e+01) -
MTSO8-NI-MS-T1	0.00e+00 (0.00e+00)	1.74e-01 (4.39e-02) -	2.44e-01 (3.53e-02) -	1.62e-01 (3.81e-02) -	1.60e-01 (4.15e-02) -	1.57e-01 (3.27e-02) -
MTSO8-NI-MS-T2	1.56e-14 (4.37e-15)	2.22e+01 (6.96e+00) -	2.58e+01 (7.20e+00) -	2.00e+01 (2.38e+00) -	6.58e+00 (2.22e+00) -	3.85e+01 (3.11e+00) -
MTSO9-NI-LS-T1	4.02e+01 (2.22e+01)	3.21e+02 (7.90e+01) -	3.43e+02 (7.36e+01) -	3.19e+02 (6.53e+01) -	3.21e+02 (4.88e+01) -	3.17e+02 (5.10e+01) -
MTSO9-NI-LS-T2	5.38e+02 (8.15e+02)	3.06e+03 (4.02e+02) -	3.10e+03 (4.44e+02) -	2.96e+03 (4.07e+02) -	3.02e+03 (4.62e+02) -	2.79e+03 (4.82e+02) -
+/-/=		0/17/1	0/18/0	0/18/0	0/17/1	0/18/0

TABLE S23

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN EACH MTO PROBLEM IN MATEA-PROBLEM. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA (CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 10 COMPONENT TASKS FROM MATEA-PROBLEM.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
MaTSO10-T1	3.03e-29 (7.40e-29)	3.02e+00 (1.34e+00) -	8.27e-02 (8.97e-02) -	2.13e+00 (5.37e-01) -	3.05e-10 (1.30e-09) -	1.95e+00 (5.65e-01) -
MaTSO10-T2	2.78e-26 (1.71e-27)	1.73e+00 (2.77e+00) -	6.28e-01 (1.29e+00) -	5.27e+00 (3.13e+00) -	1.51e+00 (3.30e-01) -	1.44e+00 (6.08e-01) -
MaTSO10-T3	2.02e-29 (9.03e-29)	1.89e+00 (1.49e+00) -	2.94e-02 (3.75e-02) -	5.42e+00 (2.43e+00) -	1.75e+00 (2.87e-01) -	1.65e+00 (4.39e-01) -
MaTSO10-T4	5.14e-05 (2.30e-04)	1.94e-01 (8.08e-02) -	7.54e-02 (3.56e-02) -	3.87e+00 (3.37e+00) -	6.93e+00 (2.29e+00) -	5.97e+00 (1.87e+00) -
MaTSO10-T5	4.70e+01 (1.33e-01)	9.78e+01 (2.40e+01) -	5.00e+01 (1.99e+00) -	1.78e+03 (1.57e+03) -	4.76e+01 (1.57e-01) -	1.09e+03 (1.15e+03) -
MaTSO10-T6	4.87e-14 (2.70e-15)	4.49e-01 (3.75e-01) -	1.94e+00 (5.05e+00) -	1.62e+01 (7.77e+00) -	1.79e+01 (4.89e+00) -	2.00e+01 (4.64e-04) -
MaTSO10-T7	1.77e-13 (6.10e-13)	2.08e+00 (5.80e-01) -	6.31e-01 (2.28e-01) -	1.42e+01 (5.25e+00) -	2.01e+01 (4.58e+00) -	1.57e+01 (2.37e+00) -
MaTSO10-T8	6.36e-04 (1.46e-11)	4.50e+01 (4.92e+01) -	1.02e+02 (1.89e+02) -	2.97e+03 (8.21e+02) -	2.87e+03 (3.59e+02) -	3.14e+03 (6.25e+02) -
MaTSO10-T9	1.48e-03 (6.62e-03)	2.84e-01 (1.03e-01) -	7.61e-02 (1.57e-02) -	1.45e-01 (6.07e-02) -	4.98e-02 (1.50e-02) -	4.52e-02 (1.21e-02) -
MaTSO10-T10	7.85e+00 (1.63e+01)	1.50e+02 (2.13e+01) -	1.02e+02 (1.60e+01) -	1.11e+02 (1.70e+01) -	8.48e+01 (1.35e+01) -	9.10e+01 (1.69e+01) -
+/-/=		0/10/0	0/10/0	0/10/0	0/10/1	0/10/0

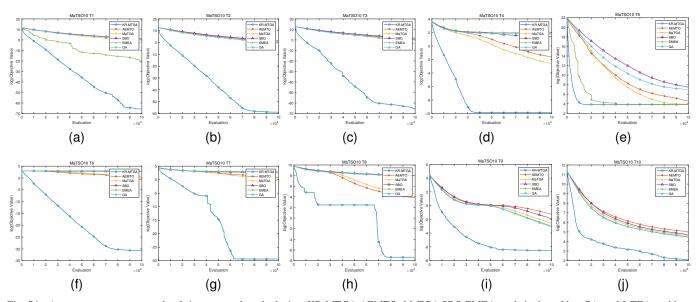


Fig. S4. Average convergence trends of six compared methods, i.e., KR-MTGA,AEMTO, MaTGA,SBO,EMEA, and single-tasking GA on MaTEA-problem.

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO1 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO1 IN TEST SUITE 3.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
CEC19-MaTSO1-T1	1.30e+02 (4.72e+01)	1.22e+03 (1.26e+03) -	8.57e+02 (5.31e+02) -	9.57e+02 (8.74e+02) -	7.87e+02 (8.37e+02) -	8.96e+02 (1.04e+03) -
CEC19-MaTSO1-T2	1.74e+02 (7.56e+01)	9.20e+02 (8.57e+02) -	9.82e+02 (9.22e+02) -	1.82e+03 (1.50e+03) -	9.70e+02 (1.02e+03) -	7.83e+02 (9.56e+02) -
CEC19-MaTSO1-T3	1.65e+02 (1.37e+02)	1.18e+03 (1.26e+03) -	1.13e+03 (1.34e+03) -	1.70e+03 (9.12e+02) -	7.79e+02 (7.73e+02) -	1.43e+03 (1.79e+03) -
CEC19-MaTSO1-T4	1.45e+02 (4.54e+01)	1.60e+03 (1.53e+03) -	9.76e+02 (1.06e+03) -	2.15e+03 (1.56e+03) -	1.33e+03 (1.57e+03) -	1.13e+03 (1.37e+03) -
CEC19-MaTSO1-T5	1.48e+02 (1.01e+02)	8.83e+02 (3.72e+02) -	1.66e+03 (1.89e+03) -	1.73e+03 (1.64e+03) -	1.23e+03 (1.49e+03) -	9.99e+02 (1.15e+03) -
CEC19-MaTSO1-T6	1.45e+02 (6.79e+01)	1.23e+03 (1.21e+03) -	8.09e+02 (8.77e+02) -	1.84e+03 (1.30e+03) -	8.63e+02 (7.71e+02) -	7.78e+02 (9.58e+02) -
CEC19-MaTSO1-T7	1.45e+02 (7.52e+01)	1.58e+03 (1.36e+03) -	1.67e+03 (1.56e+03) -	1.53e+03 (6.69e+02) -	1.17e+03 (1.09e+03) -	5.89e+02 (3.32e+02) -
CEC19-MaTSO1-T8	2.31e+02 (1.30e+02)	1.60e+03 (1.18e+03) -	9.22e+02 (8.69e+02) -	2.45e+03 (1.85e+03) -	1.26e+03 (1.73e+03) -	1.04e+03 (1.28e+03) -
CEC19-MaTSO1-T9	1.14e+02 (4.93e+01)	9.05e+02 (6.29e+02) -	8.71e+02 (9.04e+02) -	2.40e+03 (1.51e+03) -	8.45e+02 (9.57e+02) -	9.74e+02 (8.81e+02) -
CEC19-MaTSO1-T10	1.34e+02 (5.24e+01)	1.85e+03 (1.31e+03) -	1.19e+03 (1.52e+03) -	2.07e+03 (1.23e+03) -	8.86e+02 (9.68e+02) -	9.81e+02 (1.08e+03) -
CEC19-MaTSO1-T11	1.13e+02 (4.93e+01)	1.66e+03 (1.55e+03) -	1.18e+03 (1.13e+03) -	2.21e+03 (1.45e+03) -	7.84e+02 (9.59e+02) -	1.11e+03 (1.19e+03) -
CEC19-MaTSO1-T12	1.17e+02 (4.55e+01)	1.20e+03 (1.20e+03) -	1.15e+03 (1.17e+03) -	1.92e+03 (9.86e+02) -	5.99e+02 (4.30e+02) -	8.97e+02 (1.05e+03) -
CEC19-MaTSO1-T13	1.19e+02 (7.37e+01)	1.97e+03 (1.65e+03) -	9.36e+02 (9.55e+02) -	1.83e+03 (1.25e+03) -	1.12e+03 (1.61e+03) -	1.33e+03 (1.59e+03) -
CEC19-MaTSO1-T14	1.38e+02 (9.82e+01)	8.46e+02 (9.42e+02) -	1.22e+03 (1.30e+03) -	1.88e+03 (1.12e+03) -	1.19e+03 (1.58e+03) -	1.29e+03 (1.34e+03) -
CEC19-MaTSO1-T15	2.66e+02 (3.82e+02)	2.33e+03 (1.89e+03) -	1.13e+03 (1.52e+03) -	2.00e+03 (1.42e+03) -	8.99e+02 (1.14e+03) -	1.29e+03 (1.79e+03) -
CEC19-MaTSO1-T16	1.26e+02 (5.08e+01)	1.04e+03 (7.97e+02) -	8.65e+02 (9.57e+02) -	1.61e+03 (7.38e+02) -	1.33e+03 (1.59e+03) -	1.42e+03 (1.53e+03) -
CEC19-MaTSO1-T17	2.13e+02 (1.26e+02)	1.14e+03 (1.25e+03) -	5.94e+02 (1.77e+02) -	1.93e+03 (1.80e+03) -	1.01e+03 (1.14e+03) -	1.55e+03 (1.95e+03) -
CEC19-MaTSO1-T18	1.75e+02 (1.39e+02)	1.78e+03 (1.98e+03) -	1.69e+03 (1.96e+03) -	2.34e+03 (1.90e+03) -	1.32e+03 (1.52e+03) -	1.26e+03 (1.32e+03) -
CEC19-MaTSO1-T19	1.99e+02 (7.68e+01)	8.09e+02 (7.13e+02) -	1.04e+03 (1.28e+03) -	1.78e+03 (6.56e+02) -	1.01e+03 (1.15e+03) -	6.49e+02 (4.49e+02) -
CEC19-MaTSO1-T20	1.31e+02 (4.60e+01)	1.42e+03 (1.24e+03) -	1.42e+03 (1.55e+03) -	2.25e+03 (1.91e+03) -	9.03e+02 (1.13e+03) -	8.37e+02 (1.05e+03) -
CEC19-MaTSO1-T21	2.22e+02 (1.07e+02)	1.09e+03 (9.04e+02) -	1.04e+03 (8.18e+02) -	1.63e+03 (1.26e+03) -	9.00e+02 (9.44e+02) -	7.82e+02 (7.58e+02) -
CEC19-MaTSO1-T22	2.09e+02 (9.36e+01)	1.44e+03 (1.51e+03) -	8.16e+02 (8.49e+02) -	1.62e+03 (1.11e+03) -	1.18e+03 (1.31e+03) -	9.97e+02 (1.34e+03) -
CEC19-MaTSO1-T23	1.35e+02 (5.96e+01)	1.35e+03 (1.23e+03) -	1.01e+03 (1.07e+03) -	2.08e+03 (1.43e+03) -	5.46e+02 (1.70e+02) -	7.00e+02 (7.19e+02) -
CEC19-MaTSO1-T24	1.22e+02 (8.23e+01)	1.45e+03 (1.25e+03) -	7.06e+02 (4.58e+02) -	2.01e+03 (1.15e+03) -	1.15e+03 (1.21e+03) -	1.27e+03 (1.38e+03) -
CEC19-MaTSO1-T25	1.56e+02 (5.11e+01)	2.39e+03 (2.02e+03) -	1.16e+03 (1.36e+03) -	2.10e+03 (1.86e+03) -	1.40e+03 (1.65e+03) -	1.11e+03 (1.21e+03) -
CEC19-MaTSO1-T26	1.23e+02 (5.01e+01)	1.64e+03 (1.48e+03) -	7.39e+02 (6.23e+02) -	1.55e+03 (8.36e+02) -	1.05e+03 (1.00e+03) -	1.02e+03 (1.07e+03) -
CEC19-MaTSO1-T27	1.40e+02 (7.24e+01)	1.17e+03 (8.83e+02) -	7.94e+02 (9.66e+02) -	1.62e+03 (7.10e+02) -	1.20e+03 (1.39e+03) -	6.55e+02 (3.39e+02) -
CEC19-MaTSO1-T28	9.20e+01 (4.10e+01)	1.15e+03 (1.09e+03) -	1.56e+03 (1.70e+03) -	1.68e+03 (9.11e+02) -	1.39e+03 (1.67e+03) -	8.65e+02 (1.20e+03) -
CEC19-MaTSO1-T29	2.43e+02 (9.18e+01)	8.84e+02 (7.72e+02) -	7.68e+02 (3.24e+02) -	1.77e+03 (1.23e+03) -	9.16e+02 (1.10e+03) -	8.44e+02 (7.84e+02) -
CEC19-MaTSO1-T30	2.22e+02 (8.84e+01)	7.58e+02 (2.21e+02) -	1.24e+03 (1.63e+03) -	1.55e+03 (8.42e+02) -	1.40e+03 (1.56e+03) -	8.59e+02 (6.30e+02) -
CEC19-MaTSO1-T31	1.31e+02 (3.57e+01)	1.34e+03 (9.97e+02) -	1.22e+03 (1.35e+03) -	2.21e+03 (1.27e+03) -	9.74e+02 (1.11e+03) -	6.27e+02 (2.18e+02) -
CEC19-MaTSO1-T32	1.88e+02 (1.05e+02)	1.08e+03 (9.01e+02) -	1.27e+03 (1.34e+03) -	2.22e+03 (1.87e+03) -	1.48e+03 (1.57e+03) -	8.93e+02 (1.07e+03) -
CEC19-MaTSO1-T33	1.83e+02 (1.80e+02)	2.84e+03 (2.07e+03) -	1.03e+03 (1.09e+03) -	2.11e+03 (1.28e+03) -	1.04e+03 (1.26e+03) -	1.12e+03 (1.33e+03) -
CEC19-MaTSO1-T34	1.31e+02 (4.21e+01)	2.16e+03 (1.70e+03) -	1.85e+03 (1.61e+03) -	1.49e+03 (9.09e+02) -	9.17e+02 (9.71e+02) -	8.08e+02 (7.09e+02) -
CEC19-MaTSO1-T35	1.23e+02 (6.89e+01)	1.07e+03 (1.02e+03) -	8.58e+02 (8.38e+02) -	1.83e+03 (1.10e+03) -	1.17e+03 (1.33e+03) -	1.26e+03 (1.20e+03) -
CEC19-MaTSO1-T36	2.53e+02 (1.22e+02)	1.05e+03 (6.73e+02) -	2.10e+03 (2.32e+03) -	2.34e+03 (1.83e+03) -	9.62e+02 (1.08e+03) -	1.27e+03 (1.36e+03) -
CEC19-MaTSO1-T37	1.86e+02 (1.01e+02)	9.49e+02 (7.83e+02) -	1.07e+03 (1.22e+03) -	1.77e+03 (1.41e+03) -	1.01e+03 (1.33e+03) -	1.10e+03 (1.13e+03) -
CEC19-MaTSO1-T38	1.65e+02 (4.72e+01)	9.74e+02 (7.43e+02) -	7.64e+02 (6.86e+02) -	2.02e+03 (1.58e+03) -	9.29e+02 (1.22e+03) -	7.50e+02 (4.51e+02) -
CEC19-MaTSO1-T39	1.60e+02 (5.02e+01)	1.16e+03 (1.25e+03) -	1.17e+03 (1.40e+03) -	2.03e+03 (1.28e+03) -	1.35e+03 (1.34e+03) -	9.24e+02 (7.01e+02) -
CEC19-MaTSO1-T40	1.26e+02 (4.34e+01)	1.34e+03 (1.19e+03) -	1.25e+03 (1.20e+03) -	1.46e+03 (5.47e+02) -	6.49e+02 (6.72e+02) -	1.45e+03 (1.40e+03) -
CEC19-MaTSO1-T41	1.64e+02 (8.69e+01)	1.03e+03 (1.05e+03) -	1.29e+03 (1.43e+03) -	2.08e+03 (1.49e+03) -	8.16e+02 (7.93e+02) -	1.53e+03 (1.76e+03) -
CEC19-MaTSO1-T42	1.13e+02 (4.11e+01)	1.75e+03 (1.72e+03) -	8.05e+02 (8.25e+02) -	1.57e+03 (1.15e+03) -	9.98e+02 (1.01e+03) -	1.08e+03 (8.00e+02) -
CEC19-MaTSO1-T43	1.25e+02 (5.22e+01)	1.84e+03 (1.79e+03) -	7.76e+02 (9.85e+02) -	1.66e+03 (7.58e+02) -	5.78e+02 (2.03e+02) -	9.39e+02 (9.55e+02) -
CEC19-MaTSO1-T44	1.36e+02 (7.85e+01)	1.19e+03 (9.88e+02) -	1.72e+03 (1.81e+03) -	1.98e+03 (1.31e+03) -	1.53e+03 (1.92e+03) -	9.27e+02 (1.24e+03) -
CEC19-MaTSO1-T45	1.13e+02 (4.64e+01)	1.81e+03 (1.50e+03) -	1.57e+03 (1.63e+03) -	1.73e+03 (1.03e+03) -	8.74e+02 (9.42e+02) -	1.07e+03 (1.21e+03) -
CEC19-MaTSO1-T46	1.59e+02 (6.24e+01)	1.25e+03 (1.12e+03) -	1.11e+03 (1.11e+03) -	2.25e+03 (1.70e+03) -	1.22e+03 (1.51e+03) -	7.48e+02 (8.88e+02) -
CEC19-MaTSO1-T47	1.66e+02 (4.95e+01)	1.21e+03 (9.52e+02) -	1.05e+03 (1.12e+03) -	2.09e+03 (1.72e+03) -	5.70e+02 (3.06e+02) -	1.05e+03 (1.01e+03) -
CEC19-MaTSO1-T48	2.15e+02 (1.86e+02)	1.66e+03 (1.69e+03) -	6.47e+02 (2.74e+02) -	1.76e+03 (1.16e+03) -	1.34e+03 (1.55e+03) -	1.36e+03 (1.59e+03) -
CEC19-MaTSO1-T49	1.26e+02 (3.37e+01)	1.66e+03 (1.63e+03) -	1.12e+03 (1.27e+03) -	1.60e+03 (9.56e+02) -	9.77e+02 (8.64e+02) -	1.03e+03 (1.22e+03) -
CEC19-MaTSO1-T50	1.53e+02 (4.92e+01)	9.68e+02 (1.00e+03) -	9.20e+02 (8.60e+02) -	1.63e+03 (1.35e+03) -	1.04e+03 (1.15e+03) -	8.63e+02 (9.77e+02) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0
.,,-	l Buse	0,50,0	0/30/0	0,50,0	0,50,0	0/30/0

TABLE S25

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO2 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO2 IN TEST SUITE 3.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
CEC19-MaTSO2-T1	2.16e-03 (4.91e-04)	9.87e-02 (2.15e-02) -	6.09e+00 (9.34e+00) -	6.86e+00 (8.84e+00) -	1.73e+01 (6.60e+00) -	1.91e+01 (4.04e+00) -
CEC19-MaTSO2-T2	1.60e-03 (3.48e-04)	9.38e-02 (2.18e-02) -	6.06e+00 (9.32e+00) -	1.34e+01 (9.32e+00) -	1.90e+01 (4.37e+00) -	1.92e+01 (3.61e+00) -
CEC19-MaTSO2-T3	2.27e-03 (6.23e-04)	1.09e-01 (2.88e-02) -	6.09e+00 (9.36e+00) -	1.34e+01 (9.28e+00) -	2.00e+01 (8.04e-03) -	1.90e+01 (4.33e+00) -
CEC19-MaTSO2-T4	2.53e-03 (9.33e-04)	1.32e-01 (3.31e-02) -	6.07e+00 (9.30e+00) -	1.25e+01 (9.41e+00) -	1.91e+01 (4.08e+00) -	1.90e+01 (4.31e+00) -
CEC19-MaTSO2-T5	2.01e-03 (6.78e-04)	1.06e-01 (2.39e-02) -	6.10e+00 (9.34e+00) -	1.43e+01 (9.04e+00) -	1.90e+01 (4.33e+00) -	1.90e+01 (4.35e+00) -
CEC19-MaTSO2-T6	2.14e-03 (3.58e-04)	1.07e-01 (2.89e-02) -	6.07e+00 (9.34e+00) -	1.34e+01 (9.31e+00) -	1.63e+01 (7.65e+00) -	2.00e+01 (7.82e-03) -
CEC19-MaTSO2-T7	2.12e-03 (4.05e-04)	1.14e-01 (2.49e-02) -	6.06e+00 (9.31e+00) -	1.33e+01 (9.35e+00) -	1.72e+01 (6.84e+00) -	1.91e+01 (4.17e+00) -
CEC19-MaTSO2-T8	2.33e-03 (5.23e-04)	1.18e-01 (2.24e-02) -	6.08e+00 (9.33e+00) -	1.25e+01 (9.46e+00) -	1.91e+01 (4.08e+00) -	1.72e+01 (6.93e+00) -
CEC19-MaTSO2-T9	2.23e-03 (4.73e-04)	1.30e-01 (2.94e-02) -	6.07e+00 (9.33e+00) -	1.34e+01 (9.22e+00) -	1.90e+01 (4.28e+00) -	1.91e+01 (4.17e+00) -
CEC19-MaTSO2-T10	2.13e-03 (5.93e-04)	1.09e-01 (2.54e-02) -	6.08e+00 (9.32e+00) -	1.15e+01 (9.62e+00) -	1.72e+01 (6.76e+00) -	1.81e+01 (5.83e+00) -
CEC19-MaTSO2-T11	1.97e-03 (5.72e-04)	1.21e-01 (3.14e-02) -	6.09e+00 (9.34e+00) -	1.25e+01 (9.45e+00) -	1.73e+01 (6.71e+00) -	2.00e+01 (2.02e-02) -
CEC19-MaTSO2-T12	2.19e-03 (4.35e-04)	1.11e-01 (2.77e-02) -	6.08e+00 (9.34e+00) -	1.24e+01 (9.55e+00) -	1.90e+01 (4.33e+00) -	2.00e+01 (1.20e-02) -
CEC19-MaTSO2-T13	1.99e-03 (5.94e-04)	1.04e-01 (2.91e-02) -	6.07e+00 (9.32e+00) -	1.34e+01 (9.32e+00) -	2.00e+01 (6.76e-03) -	1.91e+01 (4.00e+00) -
CEC19-MaTSO2-T14	2.05e-03 (4.80e-04)	1.10e-01 (2.97e-02) -	6.08e+00 (9.34e+00) -	1.34e+01 (9.24e+00) -	2.00e+01 (9.12e-03) -	1.94e+01 (2.67e+00) -
CEC19-MaTSO2-T15	2.03e-03 (6.74e-04)	1.32e-01 (3.37e-02) -	6.11e+00 (9.36e+00) -	1.16e+01 (9.59e+00) -	1.82e+01 (5.55e+00) -	2.00e+01 (1.18e-02) -
CEC19-MaTSO2-T16	2.07e-03 (6.87e-04)	1.32e-01 (3.01e-02) -	6.09e+00 (9.35e+00) -	1.33e+01 (9.34e+00) -	2.00e+01 (7.11e-03) -	1.90e+01 (4.32e+00) -
CEC19-MaTSO2-T17	2.13e-03 (5.22e-04)	1.15e-01 (2.44e-02) -	6.08e+00 (9.33e+00) -	1.25e+01 (9.44e+00) -	1.91e+01 (4.07e+00) -	1.90e+01 (4.31e+00) -
CEC19-MaTSO2-T18	2.12e-03 (5.50e-04)	1.18e-01 (2.50e-02) -	6.09e+00 (9.36e+00) -	1.25e+01 (9.44e+00) -	2.00e+01 (2.59e-02) -	1.81e+01 (5.96e+00) -
CEC19-MaTSO2-T19	2.01e-03 (4.74e-04)	1.00e-01 (2.63e-02) -	6.07e+00 (9.33e+00) -	1.34e+01 (9.32e+00) -	2.00e+01 (3.82e-02) -	1.91e+01 (4.16e+00) -
CEC19-MaTSO2-T20	2.43e-03 (5.26e-04)	1.22e-01 (2.79e-02) -	6.09e+00 (9.33e+00) -	1.25e+01 (9.47e+00) -	1.82e+01 (5.64e+00) -	1.81e+01 (5.83e+00) -
CEC19-MaTSO2-T21	2.32e-03 (5.53e-04)	1.19e-01 (2.60e-02) -	6.07e+00 (9.33e+00) -	1.25e+01 (9.52e+00) -	1.82e+01 (5.56e+00) -	1.81e+01 (5.82e+00) -
CEC19-MaTSO2-T22	1.76e-03 (5.31e-04)	1.14e-01 (2.97e-02) -	6.10e+00 (9.36e+00) -	1.34e+01 (9.31e+00) -	2.00e+01 (1.15e-02) -	2.00e+01 (1.12e-02) -
CEC19-MaTSO2-T23	2.33e-03 (6.99e-04)	1.17e-01 (2.87e-02) -	6.06e+00 (9.32e+00) -	1.34e+01 (9.31e+00) -	1.91e+01 (3.92e+00) -	1.90e+01 (4.28e+00) -
CEC19-MaTSO2-T24	1.87e-03 (5.87e-04)	1.23e-01 (2.95e-02) -	6.08e+00 (9.34e+00) -	1.25e+01 (9.50e+00) -	1.91e+01 (3.91e+00) -	2.00e+01 (8.27e-03) -
CEC19-MaTSO2-T25	2.21e-03 (6.29e-04)	1.27e-01 (3.60e-02) -	6.10e+00 (9.37e+00) -	1.25e+01 (9.45e+00) -	1.81e+01 (5.68e+00) -	1.63e+01 (7.69e+00) -
CEC19-MaTSO2-T26	2.16e-03 (5.20e-04)	1.07e-01 (2.52e-02) -	6.06e+00 (9.30e+00) -	1.34e+01 (9.30e+00) -	1.81e+01 (5.93e+00) -	2.00e+01 (1.30e-02) -
CEC19-MaTSO2-T27	2.24e-03 (5.66e-04)	1.27e-01 (2.25e-02) -	6.10e+00 (9.35e+00) -	1.34e+01 (9.24e+00) -	1.91e+01 (4.16e+00) -	1.74e+01 (6.46e+00) -
CEC19-MaTSO2-T28	2.11e-03 (6.67e-04)	1.31e-01 (3.48e-02) -	6.10e+00 (9.36e+00) -	1.25e+01 (9.47e+00) -	1.91e+01 (4.17e+00) -	1.91e+01 (4.13e+00) -
CEC19-MaTSO2-T29	2.09e-03 (7.01e-04)	1.35e-01 (3.85e-02) -	6.11e+00 (9.37e+00) -	1.34e+01 (9.27e+00) -	1.89e+01 (4.11e+00) -	2.00e+01 (2.66e-02) -
CEC19-MaTSO2-T30	2.33e-03 (7.34e-04)	1.10e-01 (2.15e-02) -	6.09e+00 (9.34e+00) -	1.25e+01 (9.46e+00) -	1.71e+01 (6.98e+00) -	1.91e+01 (4.12e+00) -
CEC19-MaTSO2-T31	2.31e-03 (4.53e-04)	1.30e-01 (2.82e-02) -	6.06e+00 (9.32e+00) -	1.34e+01 (9.31e+00) -	1.90e+01 (4.25e+00) -	1.90e+01 (4.23e+00) -
CEC19-MaTSO2-T32	2.03e-03 (4.95e-04)	1.19e-01 (3.31e-02) -	6.04e+00 (9.27e+00) -	1.34e+01 (9.28e+00) -	2.00e+01 (1.42e-01) -	1.72e+01 (6.92e+00) -
CEC19-MaTSO2-T33	2.14e-03 (5.61e-04)	1.11e-01 (2.25e-02) -	6.07e+00 (9.32e+00) -	1.24e+01 (9.55e+00) -	1.81e+01 (5.71e+00) -	2.00e+01 (1.03e-02) -
CEC19-MaTSO2-T34	2.22e-03 (6.52e-04)	1.13e-01 (2.37e-02) -	6.04e+00 (9.29e+00) -	1.25e+01 (9.48e+00) -	2.00e+01 (5.00e-02) -	1.90e+01 (4.24e+00) -
CEC19-MaTSO2-T35	2.15e-03 (5.02e-04)	1.32e-01 (3.07e-02) -	6.11e+00 (9.37e+00) -	1.16e+01 (9.55e+00) -	1.90e+01 (4.34e+00) -	1.81e+01 (5.90e+00) -
CEC19-MaTSO2-T36	2.39e-03 (6.53e-04)	1.35e-01 (3.05e-02) -	6.11e+00 (9.36e+00) -	1.26e+01 (9.39e+00) -	2.00e+01 (1.93e-02) -	1.71e+01 (7.03e+00) -
CEC19-MaTSO2-T37	2.36e-03 (9.79e-04)	1.31e-01 (3.58e-02) -	6.08e+00 (9.34e+00) -	1.25e+01 (9.43e+00) -	1.71e+01 (6.97e+00) -	1.71e+01 (6.96e+00) -
CEC19-MaTSO2-T38	2.17e-03 (6.27e-04)	1.28e-01 (4.03e-02) -	6.06e+00 (9.29e+00) -	1.34e+01 (9.29e+00) -	1.91e+01 (4.20e+00) -	1.90e+01 (4.34e+00) -
CEC19-MaTSO2-T39	2.02e-03 (6.24e-04)	1.16e-01 (2.57e-02) -	6.07e+00 (9.31e+00) -	1.34e+01 (9.29e+00) -	1.81e+01 (5.81e+00) -	1.80e+01 (6.01e+00) -
CEC19-MaTSO2-T40	2.01e-03 (5.08e-04)	1.19e-01 (2.65e-02) -	6.09e+00 (9.36e+00) -	1.25e+01 (9.49e+00) -	1.81e+01 (5.74e+00) -	2.00e+01 (1.69e-02) -
CEC19-MaTSO2-T41	2.14e-03 (6.76e-04)	1.05e-01 (2.30e-02) -	6.08e+00 (9.34e+00) -	1.25e+01 (9.47e+00) -	1.81e+01 (5.88e+00) -	1.71e+01 (7.00e+00) -
CEC19-MaTSO2-T42	1.76e-03 (4.97e-04)	1.15e-01 (2.71e-02) -	6.08e+00 (9.34e+00) -	1.24e+01 (9.54e+00) -	1.71e+01 (6.96e+00) -	1.91e+01 (3.94e+00) -
CEC19-MaTSO2-T43	2.51e-03 (5.96e-04)	1.06e-01 (2.25e-02) -	6.06e+00 (9.31e+00) -	1.25e+01 (9.49e+00) -	1.95e+01 (2.13e+00) -	1.81e+01 (5.76e+00) -
CEC19-MaTSO2-T44	2.51e-03 (5.82e-04)	1.17e-01 (2.58e-02) -	6.09e+00 (9.34e+00) -	1.33e+01 (9.34e+00) -	1.90e+01 (4.34e+00) -	1.91e+01 (4.09e+00) -
CEC19-MaTSO2-T45	2.44e-03 (7.69e-04)	1.24e-01 (3.46e-02) -	6.06e+00 (9.32e+00) -	1.43e+01 (8.99e+00) -	1.82e+01 (5.57e+00) -	1.81e+01 (5.72e+00) -
CEC19-MaTSO2-T46	1.99e-03 (5.85e-04)	1.09e-01 (2.11e-02) -	6.07e+00 (9.33e+00) -	1.33e+01 (9.36e+00) -	2.00e+01 (1.27e-02) -	1.63e+01 (7.52e+00) -
CEC19-MaTSO2-T47	2.10e-03 (6.64e-04)	1.31e-01 (3.03e-02) -	6.10e+00 (9.35e+00) -	1.25e+01 (9.46e+00) -	1.91e+01 (4.13e+00) -	1.91e+01 (4.19e+00) -
CEC19-MaTSO2-T48	1.92e-03 (4.70e-04)	1.13e-01 (2.57e-02) -	6.09e+00 (9.35e+00) -	1.34e+01 (9.21e+00) -	1.90e+01 (4.25e+00) -	1.62e+01 (7.72e+00) -
CEC19-MaTSO2-T49	2.09e-03 (4.95e-04)	1.24e-01 (2.52e-02) -	6.08e+00 (9.34e+00) -	1.34e+01 (9.21e+00) -	1.81e+01 (5.85e+00) -	1.81e+01 (5.88e+00) -
CEC19-MaTSO2-T50	2.52e-03 (6.48e-04)	1.19e-01 (2.41e-02) -	6.08e+00 (9.32e+00) -	1.25e+01 (9.44e+00) -	2.00e+01 (9.55e-03) -	1.82e+01 (5.50e+00) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO3 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO3 IN TEST SUITE 3.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
CEC19-MaTSO3-T1	1.90e+02 (3.48e+01)	4.07e+02 (8.60e+01) -	3.19e+02 (6.33e+01) -	3.36e+02 (5.36e+01) -	3.23e+02 (5.75e+01) -	3.44e+02 (7.71e+01) -
CEC19-MaTSO3-T1	1.88e+02 (5.30e+01)	4.36e+02 (8.32e+01) -	3.35e+02 (6.33e+01) -	3.35e+02 (5.65e+01) -	3.39e+02 (5.75e+01) -	3.16e+02 (7.71e+01) -
CEC19-MaTSO3-T2		(/	3.22e+02 (7.10e+01) -			
	2.01e+02 (3.16e+01)	4.36e+02 (9.62e+01) -		3.70e+02 (5.01e+01) -	3.35e+02 (6.51e+01) -	3.45e+02 (5.77e+01) -
CEC19-MaTSO3-T4	1.91e+02 (3.34e+01)	4.42e+02 (8.34e+01) -	3.28e+02 (7.21e+01) -	3.37e+02 (5.71e+01) -	3.18e+02 (4.65e+01) -	3.40e+02 (6.75e+01) -
CEC19-MaTSO3-T5 CEC19-MaTSO3-T6	2.04e+02 (4.82e+01) 1.82e+02 (3.40e+01)	5.10e+02 (1.01e+02) -	3.29e+02 (5.77e+01) -	3.45e+02 (5.38e+01) -	3.21e+02 (5.05e+01) -	3.12e+02 (7.33e+01) - 3.03e+02 (4.52e+01) -
CEC19-MaTSO3-T6	2.09e+02 (5.06e+01)	4.54e+02 (6.91e+01) - 5.16e+02 (1.13e+02) -	2.98e+02 (4.31e+01) - 3.22e+02 (5.99e+01) -	3.55e+02 (5.12e+01) - 3.36e+02 (5.20e+01) -	3.40e+02 (5.78e+01) - 3.25e+02 (6.93e+01) -	3.26e+02 (4.32e+01) -
CEC19-MaTSO3-T7	2.05e+02 (3.06e+01) 2.05e+02 (4.32e+01)	` /	3.04e+02 (5.41e+01) -		` /	
		4.28e+02 (9.00e+01) -	` /	3.23e+02 (5.26e+01) -	3.22e+02 (5.03e+01) -	3.23e+02 (6.44e+01) -
CEC19-MaTSO3-T9 CEC19-MaTSO3-T10	1.85e+02 (5.04e+01)	4.53e+02 (9.96e+01) -	3.36e+02 (4.50e+01) -	3.18e+02 (6.23e+01) -	3.11e+02 (5.22e+01) -	3.23e+02 (7.07e+01) -
CEC19-MaTSO3-T10	2.00e+02 (3.24e+01) 1.80e+02 (4.00e+01)	4.30e+02 (7.25e+01) - 4.54e+02 (9.80e+01) -	3.30e+02 (5.97e+01) - 3.00e+02 (5.06e+01) -	3.54e+02 (6.58e+01) - 3.13e+02 (5.74e+01) -	3.19e+02 (6.67e+01) - 3.47e+02 (7.78e+01) -	3.01e+02 (4.06e+01) - 3.19e+02 (7.51e+01) -
		(,		()	(,	(/
CEC19-MaTSO3-T12	1.91e+02 (4.37e+01)	4.73e+02 (1.20e+02) -	3.15e+02 (5.13e+01) -	3.25e+02 (5.01e+01) -	3.22e+02 (5.06e+01) -	3.19e+02 (6.13e+01) -
CEC19-MaTSO3-T13	1.83e+02 (3.77e+01)	4.79e+02 (1.05e+02) -	2.96e+02 (4.54e+01) -	3.55e+02 (6.66e+01) -	3.11e+02 (6.37e+01) -	3.12e+02 (5.21e+01) -
CEC19-MaTSO3-T14	2.06e+02 (5.51e+01)	4.67e+02 (1.05e+02) -	3.28e+02 (3.47e+01) -	3.74e+02 (6.13e+01) -	3.14e+02 (5.46e+01) -	2.94e+02 (5.01e+01) -
CEC19-MaTSO3-T15	2.07e+02 (3.38e+01)	4.67e+02 (8.61e+01) -	3.13e+02 (4.17e+01) -	3.35e+02 (6.12e+01) -	3.17e+02 (5.44e+01) -	3.27e+02 (6.92e+01) -
CEC19-MaTSO3-T16	1.90e+02 (3.60e+01)	3.84e+02 (6.86e+01) -	3.25e+02 (5.64e+01) -	3.49e+02 (6.75e+01) -	3.18e+02 (8.76e+01) -	3.25e+02 (5.01e+01) -
CEC19-MaTSO3-T17	1.93e+02 (5.58e+01)	4.48e+02 (9.99e+01) -	3.38e+02 (5.86e+01) -	3.43e+02 (5.49e+01) -	3.37e+02 (5.49e+01) -	3.17e+02 (6.02e+01) -
CEC19-MaTSO3-T18	1.71e+02 (3.27e+01)	4.03e+02 (8.94e+01) -	3.11e+02 (4.33e+01) -	3.35e+02 (5.49e+01) -	3.29e+02 (6.40e+01) -	3.19e+02 (6.14e+01) -
CEC19-MaTSO3-T19	1.86e+02 (3.42e+01)	4.58e+02 (1.16e+02) -	3.52e+02 (4.99e+01) -	3.52e+02 (7.18e+01) -	3.17e+02 (5.26e+01) -	3.14e+02 (6.89e+01) -
CEC19-MaTSO3-T20	1.78e+02 (3.35e+01)	4.55e+02 (8.68e+01) -	3.10e+02 (6.23e+01) -	3.22e+02 (6.58e+01) -	3.27e+02 (6.18e+01) -	3.19e+02 (6.10e+01) -
CEC19-MaTSO3-T21	2.06e+02 (4.84e+01)	4.61e+02 (9.80e+01) -	3.21e+02 (6.96e+01) -	3.46e+02 (8.42e+01) -	3.37e+02 (6.37e+01) -	3.30e+02 (7.20e+01) -
CEC19-MaTSO3-T22	2.03e+02 (4.48e+01)	4.73e+02 (1.05e+02) -	3.54e+02 (7.02e+01) -	3.50e+02 (8.69e+01) -	3.27e+02 (4.83e+01) -	3.36e+02 (7.09e+01) -
CEC19-MaTSO3-T23	1.73e+02 (3.29e+01)	4.74e+02 (9.72e+01) -	3.09e+02 (4.91e+01) -	3.47e+02 (7.98e+01) -	3.19e+02 (4.36e+01) -	3.41e+02 (9.21e+01) -
CEC19-MaTSO3-T24	1.87e+02 (1.93e+01)	4.61e+02 (1.02e+02) -	3.07e+02 (4.50e+01) -	3.19e+02 (4.94e+01) -	3.30e+02 (4.79e+01) -	3.11e+02 (6.29e+01) -
CEC19-MaTSO3-T25	1.87e+02 (4.66e+01)	4.41e+02 (8.67e+01) -	3.43e+02 (6.45e+01) -	3.32e+02 (6.77e+01) -	3.22e+02 (6.32e+01) -	3.55e+02 (5.72e+01) -
CEC19-MaTSO3-T26	1.96e+02 (3.59e+01)	4.72e+02 (8.10e+01) -	3.35e+02 (5.34e+01) -	3.30e+02 (6.40e+01) -	3.26e+02 (5.74e+01) -	3.33e+02 (7.39e+01) -
CEC19-MaTSO3-T27	1.98e+02 (3.39e+01)	4.18e+02 (7.37e+01) -	3.29e+02 (5.55e+01) -	3.45e+02 (5.51e+01) -	3.14e+02 (5.37e+01) -	3.17e+02 (5.75e+01) -
CEC19-MaTSO3-T28	1.95e+02 (5.01e+01)	4.33e+02 (6.42e+01) -	3.18e+02 (7.00e+01) -	3.58e+02 (4.79e+01) -	3.08e+02 (5.98e+01) -	3.05e+02 (5.53e+01) -
CEC19-MaTSO3-T29	1.91e+02 (4.96e+01)	4.69e+02 (6.94e+01) -	3.35e+02 (6.99e+01) -	3.59e+02 (5.59e+01) -	3.35e+02 (3.58e+01) -	3.28e+02 (5.38e+01) -
CEC19-MaTSO3-T30	2.02e+02 (4.44e+01)	4.36e+02 (7.49e+01) -	3.41e+02 (6.73e+01) -	3.40e+02 (5.74e+01) -	3.10e+02 (6.29e+01) -	3.52e+02 (6.37e+01) -
CEC19-MaTSO3-T31	2.00e+02 (4.08e+01)	3.96e+02 (8.85e+01) -	3.18e+02 (4.87e+01) -	3.36e+02 (6.12e+01) -	3.15e+02 (5.87e+01) -	3.49e+02 (6.09e+01) -
CEC19-MaTSO3-T32	1.94e+02 (4.01e+01)	4.41e+02 (5.88e+01) -	3.29e+02 (6.14e+01) -	3.38e+02 (4.18e+01) -	3.18e+02 (5.06e+01) -	3.33e+02 (5.88e+01) -
CEC19-MaTSO3-T33	2.10e+02 (4.31e+01)	4.35e+02 (9.73e+01) -	3.05e+02 (6.49e+01) -	3.29e+02 (6.78e+01) -	3.22e+02 (6.28e+01) -	3.42e+02 (6.84e+01) -
CEC19-MaTSO3-T34	2.02e+02 (4.65e+01)	4.41e+02 (8.77e+01) -	3.05e+02 (4.38e+01) -	3.31e+02 (5.25e+01) -	3.28e+02 (7.07e+01) -	3.02e+02 (4.08e+01) -
CEC19-MaTSO3-T35	1.88e+02 (4.28e+01)	4.82e+02 (8.66e+01) -	3.13e+02 (4.63e+01) -	3.47e+02 (5.23e+01) -	3.13e+02 (5.28e+01) -	3.01e+02 (5.96e+01) -
CEC19-MaTSO3-T36	1.88e+02 (4.86e+01)	4.68e+02 (8.68e+01) -	3.31e+02 (6.97e+01) -	3.05e+02 (5.13e+01) -	3.26e+02 (7.87e+01) -	3.04e+02 (5.49e+01) -
CEC19-MaTSO3-T37	1.99e+02 (4.26e+01)	4.34e+02 (7.73e+01) -	3.37e+02 (6.00e+01) -	3.29e+02 (4.17e+01) -	3.17e+02 (5.93e+01) -	3.25e+02 (6.11e+01) -
CEC19-MaTSO3-T38	1.73e+02 (4.25e+01)	4.54e+02 (1.03e+02) -	3.41e+02 (7.08e+01) -	3.35e+02 (6.22e+01) -	3.30e+02 (6.28e+01) -	3.22e+02 (5.29e+01) -
CEC19-MaTSO3-T39	1.84e+02 (3.14e+01)	4.43e+02 (6.91e+01) -	3.44e+02 (5.73e+01) -	3.46e+02 (6.13e+01) -	2.99e+02 (4.28e+01) -	3.14e+02 (6.63e+01) -
CEC19-MaTSO3-T40	2.02e+02 (4.52e+01)	4.35e+02 (9.77e+01) -	3.34e+02 (5.24e+01) -	3.46e+02 (7.86e+01) -	3.22e+02 (5.64e+01) -	3.39e+02 (5.84e+01) -
CEC19-MaTSO3-T41	1.80e+02 (3.55e+01)	4.58e+02 (9.47e+01) -	3.27e+02 (6.58e+01) -	3.54e+02 (7.01e+01) -	3.35e+02 (7.30e+01) -	3.13e+02 (7.70e+01) -
CEC19-MaTSO3-T42	1.81e+02 (4.61e+01)	4.58e+02 (6.59e+01) -	3.26e+02 (6.27e+01) -	3.23e+02 (5.27e+01) -	3.32e+02 (6.11e+01) -	3.22e+02 (4.87e+01) -
CEC19-MaTSO3-T43	1.90e+02 (4.37e+01)	4.70e+02 (8.77e+01) -	3.34e+02 (5.67e+01) -	3.30e+02 (5.51e+01) -	3.28e+02 (5.89e+01) -	3.37e+02 (5.76e+01) -
CEC19-MaTSO3-T44	1.85e+02 (3.56e+01)	4.48e+02 (9.56e+01) -	3.55e+02 (7.22e+01) -	3.31e+02 (5.73e+01) -	3.23e+02 (6.06e+01) -	3.45e+02 (6.99e+01) -
CEC19-MaTSO3-T45	1.74e+02 (3.39e+01)	4.43e+02 (8.03e+01) -	3.22e+02 (6.43e+01) -	3.56e+02 (4.90e+01) -	3.13e+02 (6.17e+01) -	3.16e+02 (5.23e+01) -
CEC19-MaTSO3-T46	2.00e+02 (5.42e+01)	4.13e+02 (9.91e+01) -	3.37e+02 (7.17e+01) -	3.51e+02 (6.94e+01) -	3.12e+02 (6.90e+01) -	3.40e+02 (5.98e+01) -
CEC19-MaTSO3-T47	2.16e+02 (4.68e+01)	5.05e+02 (8.33e+01) -	3.23e+02 (5.37e+01) -	3.36e+02 (5.33e+01) -	3.34e+02 (6.11e+01) -	3.26e+02 (7.17e+01) -
CEC19-MaTSO3-T48	2.00e+02 (3.55e+01)	5.13e+02 (9.44e+01) -	3.19e+02 (5.47e+01) -	3.65e+02 (5.81e+01) -	3.18e+02 (5.97e+01) -	3.06e+02 (5.25e+01) -
CEC19-MaTSO3-T49	1.87e+02 (4.46e+01)	4.39e+02 (5.35e+01) -	3.14e+02 (5.27e+01) -	3.44e+02 (5.91e+01) -	3.26e+02 (6.04e+01) -	3.16e+02 (6.28e+01) -
CEC19-MaTSO3-T50	1.77e+02 (3.27e+01)	5.14e+02 (1.30e+02) -	3.32e+02 (7.07e+01) -	3.58e+02 (6.14e+01) -	3.32e+02 (6.05e+01) -	3.18e+02 (5.50e+01) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO4 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO4 IN TEST SUITE 3.

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Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
CEC19-MaTSO4-T1	2.63e-02 (1.01e-02)	2.61e-01 (5.37e-02) -	2.01e-01 (3.88e-02) -	1.88e-01 (2.11e-02) -	1.68e-01 (3.54e-02) -	1.80e-01 (3.19e-02) -
CEC19-MaTSO4-T2	2.66e-02 (1.57e-02)	2.78e-01 (5.49e-02) -	1.95e-01 (4.53e-02) -	3.83e-01 (5.87e-02) -	1.71e-01 (3.93e-02) -	1.67e-01 (4.39e-02) -
CEC19-MaTSO4-T3	3.30e-02 (1.26e-02)	2.76e-01 (5.93e-02) -	1.98e-01 (5.14e-02) -	3.46e-01 (6.59e-02) -	1.74e-01 (3.55e-02) -	1.60e-01 (3.60e-02) -
CEC19-MaTSO4-T4	2.53e-02 (7.54e-03)	2.82e-01 (5.97e-02) -	2.08e-01 (4.96e-02) -	3.55e-01 (4.02e-02) -	1.68e-01 (3.91e-02) -	1.63e-01 (2.66e-02) -
CEC19-MaTSO4-T5	2.63e-02 (1.01e-02)	2.80e-01 (6.15e-02) -	2.11e-01 (5.16e-02) -	3.72e-01 (6.78e-02) -	1.73e-01 (3.78e-02) -	1.74e-01 (4.76e-02) -
CEC19-MaTSO4-T6	2.37e-02 (1.02e-02)	2.91e-01 (4.98e-02) -	1.92e-01 (3.35e-02) -	3.68e-01 (6.13e-02) -	1.68e-01 (4.42e-02) -	1.81e-01 (2.83e-02) -
CEC19-MaTSO4-T7	3.05e-02 (1.43e-02)	2.89e-01 (5.99e-02) -	1.96e-01 (4.05e-02) -	3.82e-01 (5.38e-02) -	1.69e-01 (3.91e-02) -	1.67e-01 (3.46e-02) -
CEC19-MaTSO4-T8	2.66e-02 (1.41e-02)	2.87e-01 (5.95e-02) -	2.11e-01 (4.40e-02) -	3.69e-01 (6.27e-02) -	1.77e-01 (5.26e-02) -	1.57e-01 (3.33e-02) -
CEC19-MaTSO4-T9	2.73e-02 (1.20e-02)	2.75e-01 (5.77e-02) -	2.00e-01 (3.85e-02) -	3.45e-01 (5.99e-02) -	1.76e-01 (3.25e-02) -	1.80e-01 (4.86e-02) -
CEC19-MaTSO4-T10	2.25e-02 (9.78e-03)	2.96e-01 (5.44e-02) -	1.99e-01 (4.12e-02) -	3.79e-01 (5.99e-02) -	1.53e-01 (2.98e-02) -	1.69e-01 (4.08e-02) -
CEC19-MaTSO4-T11	2.40e-02 (7.93e-03)	2.60e-01 (4.44e-02) -	1.90e-01 (3.48e-02) -	3.63e-01 (5.66e-02) -	1.72e-01 (3.92e-02) -	1.68e-01 (3.41e-02) -
CEC19-MaTSO4-T12	2.45e-02 (7.92e-03)	2.85e-01 (5.18e-02) -	1.99e-01 (4.11e-02) -	3.83e-01 (4.57e-02) -	1.53e-01 (3.26e-02) -	1.71e-01 (3.34e-02) -
CEC19-MaTSO4-T13	2.20e-02 (8.76e-03)	2.75e-01 (5.91e-02) -	1.95e-01 (4.70e-02) -	3.75e-01 (5.27e-02) -	1.63e-01 (3.90e-02) -	1.75e-01 (3.59e-02) -
CEC19-MaTSO4-T14	3.12e-02 (1.32e-02)	2.77e-01 (6.28e-02) -	2.07e-01 (4.53e-02) -	3.71e-01 (7.08e-02) -	1.77e-01 (4.06e-02) -	1.80e-01 (3.46e-02) -
CEC19-MaTSO4-T15	2.37e-02 (1.06e-02)	3.01e-01 (6.86e-02) -	2.08e-01 (4.79e-02) -	3.73e-01 (8.18e-02) -	1.78e-01 (3.94e-02) -	1.54e-01 (2.61e-02) -
CEC19-MaTSO4-T16	2.34e-02 (1.08e-02)	2.78e-01 (5.53e-02) -	2.00e-01 (3.36e-02) -	3.61e-01 (5.62e-02) -	1.65e-01 (2.23e-02) -	1.63e-01 (3.77e-02) -
CEC19-MaTSO4-T17	2.26e-02 (9.28e-03)	2.77e-01 (4.48e-02) -	1.96e-01 (2.50e-02) -	3.80e-01 (6.76e-02) -	1.68e-01 (2.45e-02) -	1.60e-01 (3.15e-02) -
CEC19-MaTSO4-T18	2.43e-02 (1.13e-02)	2.81e-01 (4.33e-02) -	2.08e-01 (4.22e-02) -	3.32e-01 (4.31e-02) -	1.65e-01 (4.39e-02) -	1.67e-01 (3.55e-02) -
CEC19-MaTSO4-T19	2.23e-02 (1.09e-02)	2.94e-01 (4.77e-02) -	1.98e-01 (3.65e-02) -	3.52e-01 (6.29e-02) -	1.76e-01 (3.51e-02) -	1.78e-01 (3.17e-02) -
CEC19-MaTSO4-T20	2.74e-02 (1.08e-02)	2.77e-01 (4.71e-02) -	2.00e-01 (4.91e-02) -	3.49e-01 (6.62e-02) -	1.68e-01 (3.78e-02) -	1.64e-01 (4.79e-02) -
CEC19-MaTSO4-T21	2.29e-02 (8.04e-03)	2.70e-01 (5.97e-02) -	1.98e-01 (4.25e-02) -	3.88e-01 (6.84e-02) -	1.71e-01 (4.04e-02) -	1.73e-01 (2.92e-02) -
CEC19-MaTSO4-T22	2.53e-02 (8.44e-03)	2.96e-01 (4.85e-02) -	2.08e-01 (4.88e-02) -	3.55e-01 (6.84e-02) -	1.78e-01 (5.35e-02) -	1.53e-01 (3.47e-02) -
CEC19-MaTSO4-T23	2.74e-02 (1.25e-02)	2.88e-01 (4.98e-02) -	2.08e-01 (4.55e-02) -	3.47e-01 (4.77e-02) -	1.74e-01 (4.44e-02) -	1.65e-01 (3.72e-02) -
CEC19-MaTSO4-T24	2.70e-02 (1.05e-02)	2.92e-01 (5.41e-02) -	2.02e-01 (4.60e-02) -	3.88e-01 (6.87e-02) -	1.61e-01 (3.98e-02) -	1.68e-01 (3.58e-02) -
CEC19-MaTSO4-T25	2.36e-02 (7.58e-03)	2.80e-01 (5.21e-02) -	2.00e-01 (5.20e-02) -	3.42e-01 (6.08e-02) -	1.60e-01 (4.48e-02) -	1.76e-01 (4.25e-02) -
CEC19-MaTSO4-T26	2.33e-02 (7.93e-03)	2.78e-01 (5.46e-02) -	1.93e-01 (3.53e-02) -	3.66e-01 (7.06e-02) -	1.76e-01 (4.21e-02) -	1.62e-01 (4.99e-02) -
CEC19-MaTSO4-T27	1.93e-02 (6.96e-03)	2.72e-01 (5.11e-02) -	1.99e-01 (4.50e-02) -	3.52e-01 (5.20e-02) -	1.49e-01 (3.60e-02) -	1.77e-01 (5.34e-02) -
CEC19-MaTSO4-T28	2.33e-02 (9.10e-03)	2.82e-01 (5.81e-02) -	1.84e-01 (2.86e-02) -	3.45e-01 (6.83e-02) -	1.70e-01 (3.83e-02) -	1.79e-01 (2.86e-02) -
CEC19-MaTSO4-T29	2.79e-02 (1.44e-02)	2.68e-01 (7.37e-02) -	2.05e-01 (4.55e-02) -	3.50e-01 (5.21e-02) -	1.71e-01 (3.70e-02) -	1.77e-01 (3.04e-02) -
CEC19-MaTSO4-T30	2.69e-02 (1.38e-02)	2.54e-01 (5.79e-02) -	1.90e-01 (3.36e-02) -	3.52e-01 (7.64e-02) -	1.79e-01 (3.68e-02) -	1.71e-01 (4.15e-02) -
CEC19-MaTSO4-T31	2.37e-02 (9.24e-03)	2.78e-01 (4.23e-02) -	2.10e-01 (4.09e-02) -	3.69e-01 (7.29e-02) -	1.74e-01 (3.66e-02) -	1.77e-01 (4.09e-02) -
CEC19-MaTSO4-T32	2.63e-02 (1.15e-02)	3.07e-01 (5.26e-02) -	1.90e-01 (3.49e-02) -	3.47e-01 (5.77e-02) -	1.75e-01 (4.13e-02) -	1.73e-01 (3.07e-02) -
CEC19-MaTSO4-T33	2.54e-02 (1.32e-02)	2.86e-01 (3.46e-02) -	1.84e-01 (4.22e-02) -	3.64e-01 (6.70e-02) -	1.57e-01 (4.13e-02) -	1.72e-01 (3.68e-02) -
CEC19-MaTSO4-T34	2.72e-02 (1.18e-02)	2.91e-01 (4.30e-02) -	1.90e-01 (3.99e-02) -	3.94e-01 (5.03e-02) -	1.72e-01 (3.67e-02) -	1.51e-01 (2.62e-02) -
CEC19-MaTSO4-T35	2.65e-02 (1.14e-02)	2.73e-01 (6.55e-02) -	1.96e-01 (4.81e-02) -	3.80e-01 (5.25e-02) -	1.69e-01 (3.02e-02) -	1.62e-01 (3.31e-02) -
CEC19-MaTSO4-T36	2.68e-02 (1.09e-02)	2.88e-01 (4.90e-02) -	2.11e-01 (4.02e-02) -	3.96e-01 (8.86e-02) -	1.66e-01 (3.60e-02) -	1.65e-01 (3.54e-02) -
CEC19-MaTSO4-T37	2.65e-02 (9.88e-03)	2.84e-01 (4.89e-02) -	2.03e-01 (3.75e-02) -	3.49e-01 (5.65e-02) -	1.74e-01 (3.54e-02) -	1.67e-01 (2.36e-02) -
CEC19-MaTSO4-T38	2.72e-02 (1.08e-02)	2.71e-01 (5.62e-02) -	2.10e-01 (4.44e-02) -	3.87e-01 (8.11e-02) -	1.53e-01 (2.65e-02) -	1.53e-01 (3.35e-02) -
CEC19-MaTSO4-T39	2.48e-02 (1.07e-02)	2.84e-01 (5.28e-02) -	2.09e-01 (3.82e-02) -	3.60e-01 (7.58e-02) -	1.62e-01 (4.83e-02) -	1.59e-01 (2.22e-02) -
CEC19-MaTSO4-T40	2.62e-02 (1.13e-02)	2.59e-01 (4.73e-02) -	2.30e-01 (5.83e-02) -	3.52e-01 (7.43e-02) -	1.67e-01 (3.35e-02) -	1.63e-01 (2.22e-02) -
CEC19-MaTSO4-T41	2.54e-02 (1.14e-02)	2.73e-01 (4.75e-02) -	2.05e-01 (3.83e-02) -	3.58e-01 (5.72e-02) -	1.74e-01 (3.53e-02) -	1.48e-01 (3.97e-02) -
CEC19-MaTSO4-T41	2.74e-02 (1.12e-02)	2.93e-01 (5.87e-02) -	2.01e-01 (4.27e-02) -	3.76e-01 (8.32e-02) -	1.57e-01 (2.83e-02) -	1.52e-01 (3.81e-02) -
CEC19-MaTSO4-142	2.74e-02 (1.12e-02) 2.59e-02 (7.25e-03)	2.79e-01 (5.38e-02) -	1.97e-01 (4.02e-02) -	3.69e-01 (8.32e-02) -	1.63e-01 (2.85e-02) -	1.68e-01 (4.28e-02) -
CEC19-MaTSO4-T44	2.45e-02 (7.23e-03) 2.45e-02 (8.33e-03)	2.79e-01 (5.38e-02) -	1.95e-01 (4.97e-02) -	3.63e-01 (7.13e-02) -	1.65e-01 (3.49e-02) -	1.72e-01 (4.20e-02) -
CEC19-MaTSO4-T45	2.47e-02 (8.35e-03) 2.47e-02 (9.45e-03)	3.05e-01 (5.07e-02) -	2.00e-01 (5.19e-02) -	3.52e-01 (5.53e-02) -	1.59e-01 (3.68e-02) -	1.66e-01 (2.73e-02) -
CEC19-MaTSO4-T46	2.71e-02 (9.43e-03)	2.82e-01 (5.61e-02) -	2.00e-01 (3.19e-02) -	3.74e-01 (5.78e-02) -	1.76e-01 (3.71e-02) -	1.73e-01 (4.04e-02) -
CEC19-MaTSO4-146	2.71e-02 (6.98e-03) 2.35e-02 (8.45e-03)	2.82e-01 (5.61e-02) -	2.22e-01 (3.83e-02) -	3.61e-01 (5.41e-02) -	\ /	1.73e-01 (4.04e-02) - 1.59e-01 (3.01e-02) -
CEC19-MaTSO4-147	(/			3.61e-01 (5.41e-02) -	1.59e-01 (4.10e-02) -	
	2.54e-02 (9.90e-03)	2.73e-01 (6.01e-02) -	1.99e-01 (3.85e-02) -		1.71e-01 (3.13e-02) -	1.80e-01 (4.76e-02) -
CEC19-MaTSO4-T49 CEC19-MaTSO4-T50	2.89e-02 (9.64e-03)	2.86e-01 (5.78e-02) -	2.12e-01 (4.48e-02) -	3.47e-01 (6.77e-02) -	1.73e-01 (3.46e-02) -	1.61e-01 (3.61e-02) -
+/-/=	2.70e-02 (1.01e-02) Base	2.84e-01 (6.61e-02) - 0/50/0	2.01e-01 (4.99e-02) - 0/50/0	3.36e-01 (5.43e-02) - 0/50/0	1.71e-01 (2.91e-02) - 0/50/0	1.64e-01 (4.06e-02) - 0/50/0
+/-/=	Dase	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0

TABLE S28

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO5 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO5 IN TEST SUITE 3.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
CEC19-MaTSO5-T1	5.66e-01 (1.26e-01)	1.99e+00 (2.00e-01) -	1.49e+00 (1.77e-01) -	1.45e+00 (2.08e-01) -	1.38e+00 (1.63e-01) -	1.36e+00 (2.22e-01) -
CEC19-MaTSO5-T1	6.24e-01 (1.45e-01)	2.01e+00 (2.00e-01) -	1.55e+00 (1.77c-01) -	2.37e+00 (3.01e-01) -	1.28e+00 (1.05e-01) -	1.31e+00 (2.22e-01) -
CEC19-MaTSO5-T2	5.90e-01 (1.37e-01)	2.01e+00 (1.83e-01) -	1.58e+00 (1.95e-01) -	2.31e+00 (3.61e-01) -	1.42e+00 (2.34e-01) -	1.32e+00 (1.33e-01) -
CEC19-MaTSO5-T3	5.94e-01 (1.09e-01)	2.00e+00 (2.54e-01) -	1.50e+00 (1.50e-01) -	2.41e+00 (2.89e-01) -	1.32e+00 (2.15e-01) -	1.31e+00 (1.70e-01) -
CEC19-MaTSO5-T4	6.21e-01 (1.09e-01)	2.13e+00 (2.69e-01) -	1.52e+00 (2.12e-01) -	2.37e+00 (2.89e-01) -	1.34e+00 (2.13e-01) -	1.38e+00 (1.68e-01) -
CEC19-MaTSO5-T6	6.18e-01 (1.42e-01)	2.07e+00 (2.63e-01) -	1.47e+00 (2.12e-01) -	2.30e+00 (2.65e-01) -	1.34e+00 (1.37e-01) -	1.35e+00 (1.20e-01) -
CEC19-MaTSO5-T0	6.23e-01 (1.19e-01)	2.07e+00 (2.35e-01) -	1.47e+00 (1.51e-01) -	2.18e+00 (2.21e-01) -	1.31e+00 (1.64e-01) -	1.42e+00 (1.44e-01) -
CEC19-MaTSO5-T7	6.46e-01 (1.38e-01)	2.09e+00 (2.51e-01) -	1.50e+00 (1.43e-01) -	2.39e+00 (3.02e-01) -	1.40e+00 (1.44e-01) -	1.39e+00 (1.73e-01) -
CEC19-MaTSO5-T6	6.23e-01 (9.97e-02)	2.19e+00 (2.57e-01) -	1.48e+00 (1.80e-01) -	2.42e+00 (3.02e-01) -	1.34e+00 (1.34e-01) -	1.39e+00 (1.78e-01) -
CEC19-MaTSO5-T9	5.60e-01 (1.44e-01)	2.14e+00 (2.12e-01) -	1.59e+00 (1.62e-01) -	2.42e+00 (1.97e-01) -	1.36e+00 (1.95e-01) -	1.39e+00 (1.7e-01) -
CEC19-MaTSO5-T10	6.63e-01 (1.44e-01)	2.07e+00 (2.34e-01) -	1.46e+00 (2.16e-01) -	2.37e+00 (4.17e-01) -	1.32e+00 (1.45e-01) -	1.31e+00 (1.77e-01) -
CEC19-MaTSO5-T11	6.01e-01 (9.28e-02)	2.02e+00 (2.34e-01) -	1.49e+00 (2.16e-01) -	2.30e+00 (2.28e-01) -	1.35e+00 (1.43e-01) -	1.34e+00 (1.77e-01) -
CEC19-MaTSO5-T12	6.11e-01 (9.28e-02)	2.02e+00 (2.04e-01) - 2.10e+00 (2.83e-01) -	1.49e+00 (1.38e-01) -	2.35e+00 (2.28e-01) -	1.35e+00 (1.28e-01) -	1.34e+00 (1.40e-01) -
		,				
CEC19-MaTSO5-T14	5.93e-01 (8.68e-02)	2.17e+00 (3.02e-01) -	1.50e+00 (1.50e-01) -	2.31e+00 (2.15e-01) -	1.26e+00 (1.51e-01) -	1.39e+00 (1.47e-01) -
CEC19-MaTSO5-T15	6.03e-01 (1.41e-01)	2.13e+00 (2.56e-01) -	1.43e+00 (1.98e-01) -	2.41e+00 (2.43e-01) -	1.36e+00 (1.89e-01) -	1.40e+00 (1.70e-01) -
CEC19-MaTSO5-T16	6.03e-01 (1.30e-01)	2.10e+00 (2.39e-01) -	1.48e+00 (1.39e-01) -	2.33e+00 (2.10e-01) -	1.31e+00 (1.59e-01) -	1.38e+00 (1.72e-01) -
CEC19-MaTSO5-T17	5.82e-01 (1.77e-01)	2.23e+00 (2.24e-01) -	1.45e+00 (1.15e-01) -	2.43e+00 (2.58e-01) -	1.33e+00 (1.04e-01) -	1.34e+00 (1.63e-01) -
CEC19-MaTSO5-T18	5.79e-01 (1.52e-01)	2.09e+00 (2.19e-01) -	1.51e+00 (1.88e-01) -	2.32e+00 (2.20e-01) -	1.33e+00 (1.79e-01) -	1.30e+00 (1.91e-01) -
CEC19-MaTSO5-T19	6.25e-01 (1.18e-01)	2.12e+00 (2.41e-01) -	1.48e+00 (1.86e-01) -	2.41e+00 (2.93e-01) -	1.38e+00 (1.27e-01) -	1.41e+00 (1.74e-01) -
CEC19-MaTSO5-T20	6.55e-01 (1.19e-01)	2.09e+00 (1.70e-01) -	1.47e+00 (1.81e-01) -	2.38e+00 (2.90e-01) -	1.31e+00 (1.53e-01) -	1.39e+00 (1.85e-01) -
CEC19-MaTSO5-T21	6.00e-01 (1.49e-01)	2.04e+00 (1.72e-01) -	1.52e+00 (1.79e-01) -	2.27e+00 (2.82e-01) -	1.33e+00 (2.00e-01) -	1.38e+00 (1.26e-01) -
CEC19-MaTSO5-T22	6.31e-01 (1.24e-01)	2.18e+00 (2.30e-01) -	1.51e+00 (1.65e-01) -	2.46e+00 (2.80e-01) -	1.34e+00 (2.03e-01) -	1.35e+00 (1.66e-01) -
CEC19-MaTSO5-T23	5.73e-01 (1.06e-01)	2.20e+00 (2.31e-01) -	1.61e+00 (1.85e-01) -	2.41e+00 (2.83e-01) -	1.35e+00 (1.59e-01) -	1.31e+00 (1.55e-01) -
CEC19-MaTSO5-T24	5.90e-01 (1.40e-01)	2.21e+00 (2.29e-01) -	1.41e+00 (1.72e-01) -	2.39e+00 (2.84e-01) -	1.27e+00 (1.38e-01) -	1.33e+00 (2.33e-01) -
CEC19-MaTSO5-T25	5.30e-01 (9.83e-02)	2.10e+00 (1.76e-01) -	1.46e+00 (1.61e-01) -	2.43e+00 (2.37e-01) -	1.34e+00 (1.41e-01) -	1.36e+00 (1.99e-01) -
CEC19-MaTSO5-T26	5.52e-01 (1.08e-01)	2.15e+00 (2.85e-01) -	1.48e+00 (2.02e-01) -	2.43e+00 (2.33e-01) -	1.33e+00 (1.40e-01) -	1.31e+00 (1.58e-01) -
CEC19-MaTSO5-T27	6.07e-01 (1.10e-01)	2.13e+00 (1.76e-01) -	1.57e+00 (1.87e-01) -	2.48e+00 (2.50e-01) -	1.30e+00 (1.79e-01) -	1.32e+00 (1.11e-01) -
CEC19-MaTSO5-T28	5.61e-01 (1.28e-01)	2.11e+00 (1.79e-01) -	1.54e+00 (1.51e-01) -	2.48e+00 (3.05e-01) -	1.26e+00 (1.54e-01) -	1.42e+00 (1.98e-01) -
CEC19-MaTSO5-T29	6.27e-01 (1.44e-01)	2.01e+00 (2.08e-01) -	1.49e+00 (1.23e-01) -	2.30e+00 (3.42e-01) -	1.31e+00 (1.49e-01) -	1.32e+00 (1.36e-01) -
CEC19-MaTSO5-T30	5.87e-01 (1.29e-01)	2.11e+00 (2.16e-01) -	1.54e+00 (1.68e-01) -	2.49e+00 (3.50e-01) -	1.42e+00 (2.08e-01) -	1.40e+00 (1.96e-01) -
CEC19-MaTSO5-T31	6.13e-01 (1.42e-01)	2.04e+00 (1.87e-01) -	1.44e+00 (1.61e-01) -	2.42e+00 (3.12e-01) -	1.37e+00 (1.60e-01) -	1.33e+00 (1.24e-01) -
CEC19-MaTSO5-T32	6.16e-01 (1.30e-01)	2.16e+00 (2.09e-01) -	1.47e+00 (1.60e-01) -	2.25e+00 (2.32e-01) -	1.40e+00 (2.25e-01) -	1.35e+00 (1.98e-01) -
CEC19-MaTSO5-T33	6.19e-01 (1.25e-01)	2.08e+00 (2.40e-01) -	1.44e+00 (1.14e-01) -	2.35e+00 (2.26e-01) -	1.31e+00 (1.90e-01) -	1.40e+00 (1.92e-01) -
CEC19-MaTSO5-T34	6.00e-01 (1.33e-01)	2.11e+00 (2.88e-01) -	1.53e+00 (1.34e-01) -	2.54e+00 (2.67e-01) -	1.33e+00 (1.61e-01) -	1.38e+00 (1.64e-01) -
CEC19-MaTSO5-T35	6.08e-01 (1.34e-01)	2.22e+00 (2.00e-01) -	1.53e+00 (1.82e-01) -	2.34e+00 (2.20e-01) -	1.36e+00 (1.61e-01) -	1.38e+00 (1.74e-01) -
CEC19-MaTSO5-T36	5.59e-01 (1.22e-01)	2.08e+00 (2.68e-01) -	1.62e+00 (1.83e-01) -	2.34e+00 (3.18e-01) -	1.37e+00 (1.50e-01) -	1.35e+00 (1.29e-01) -
CEC19-MaTSO5-T37	5.51e-01 (1.10e-01)	2.11e+00 (2.25e-01) -	1.52e+00 (2.03e-01) -	2.46e+00 (2.60e-01) -	1.31e+00 (1.80e-01) -	1.38e+00 (1.22e-01) -
CEC19-MaTSO5-T38	6.00e-01 (1.25e-01)	2.12e+00 (1.87e-01) -	1.48e+00 (1.26e-01) -	2.56e+00 (2.77e-01) -	1.32e+00 (1.47e-01) -	1.33e+00 (1.86e-01) -
CEC19-MaTSO5-T39	5.58e-01 (1.21e-01)	2.18e+00 (1.81e-01) -	1.50e+00 (1.46e-01) -	2.43e+00 (3.11e-01) -	1.30e+00 (1.42e-01) -	1.37e+00 (1.80e-01) -
CEC19-MaTSO5-T40	6.51e-01 (1.40e-01)	2.03e+00 (1.83e-01) -	1.46e+00 (1.95e-01) -	2.35e+00 (2.42e-01) -	1.30e+00 (1.52e-01) -	1.37e+00 (1.21e-01) -
CEC19-MaTSO5-T41	6.33e-01 (8.32e-02)	2.08e+00 (2.06e-01) -	1.48e+00 (1.56e-01) -	2.36e+00 (3.00e-01) -	1.39e+00 (2.62e-01) -	1.45e+00 (1.34e-01) -
CEC19-MaTSO5-T42	6.11e-01 (1.26e-01)	2.21e+00 (2.93e-01) -	1.50e+00 (1.81e-01) -	2.36e+00 (2.99e-01) -	1.30e+00 (1.55e-01) -	1.32e+00 (1.32e-01) -
CEC19-MaTSO5-T43	6.24e-01 (1.21e-01)	2.13e+00 (2.22e-01) -	1.56e+00 (1.79e-01) -	2.30e+00 (2.45e-01) -	1.36e+00 (1.04e-01) -	1.33e+00 (1.68e-01) -
CEC19-MaTSO5-T44	5.59e-01 (9.19e-02)	2.18e+00 (2.01e-01) -	1.57e+00 (1.69e-01) -	2.36e+00 (3.37e-01) -	1.32e+00 (1.83e-01) -	1.31e+00 (1.25e-01) -
CEC19-MaTSO5-T45	5.93e-01 (1.28e-01)	2.13e+00 (2.00e-01) -	1.60e+00 (1.71e-01) -	2.36e+00 (2.44e-01) -	1.33e+00 (1.29e-01) -	1.31e+00 (1.23e-01) -
CEC19-MaTSO5-T46	5.93e-01 (1.16e-01)	2.15e+00 (2.38e-01) -	1.40e+00 (1.32e-01) -	2.37e+00 (3.42e-01) -	1.31e+00 (1.44e-01) -	1.38e+00 (1.69e-01) -
CEC19-MaTSO5-T47	5.93e-01 (1.33e-01)	2.17e+00 (2.10e-01) -	1.47e+00 (1.77e-01) -	2.36e+00 (2.34e-01) -	1.35e+00 (1.81e-01) -	1.24e+00 (1.70e-01) -
CEC19-MaTSO5-T48	6.77e-01 (1.30e-01)	2.05e+00 (2.27e-01) -	1.54e+00 (1.66e-01) -	2.37e+00 (2.12e-01) -	1.32e+00 (1.76e-01) -	1.40e+00 (2.01e-01) -
CEC19-MaTSO5-T49	6.01e-01 (1.60e-01)	2.13e+00 (2.37e-01) -	1.52e+00 (2.04e-01) -	2.33e+00 (3.22e-01) -	1.34e+00 (1.64e-01) -	1.32e+00 (1.53e-01) -
CEC19-MaTSO5-T50	6.57e-01 (1.47e-01)	2.08e+00 (3.05e-01) -	1.51e+00 (1.79e-01) -	2.33e+00 (2.93e-01) -	1.34e+00 (1.98e-01) -	1.39e+00 (1.65e-01) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATSO6 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATSO6 IN TEST SUITE 3.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
CEC19-MaTSO6-T1	9.77e-03 (4.99e-03)	8.16e+02 (5.18e+02) -	1.18e+02 (1.06e+02) -	2.54e+03 (4.25e+02) -	2.69e+03 (4.37e+02) -	2.65e+03 (4.02e+02) -
CEC19-MaTSO6-T1	1.33e-02 (5.36e-03)	8.37e+02 (5.99e+02) -	6.25e+01 (5.06e+01) -	2.97e+03 (3.62e+02) -	2.82e+03 (4.20e+02) -	2.67e+03 (4.27e+02) -
CEC19-MaTSO6-T2	1.05e-02 (4.90e-03)	8.56e+02 (5.67e+02) -	8.14e+01 (7.84e+01) -	3.05e+03 (3.71e+02) -	2.72e+03 (4.89e+02) -	2.65e+03 (3.07e+02) -
CEC19-MaTSO6-T3	1.11e-02 (5.35e-03)	8.71e+02 (5.29e+02) -	9.09e+01 (7.01e+01) -	2.93e+03 (4.71e+02) -	2.80e+03 (4.13e+02) -	2.55e+03 (2.91e+02) -
CEC19-MaTSO6-T5	7.52e-03 (3.38e-03)	8.68e+02 (5.59e+02) -	8.55e+01 (9.88e+01) -	2.88e+03 (4.53e+02) -	2.83e+03 (3.70e+02) -	2.76e+03 (3.93e+02) -
CEC19-MaTSO6-T6	8.72e-03 (3.35e-03)	8.96e+02 (5.65e+02) -	1.73e+02 (1.64e+02) -	2.91e+03 (5.25e+02) -	2.62e+03 (3.27e+02) -	2.90e+03 (3.54e+02) -
CEC19-MaTSO6-T0	1.05e-02 (6.36e-03)	8.02e+02 (5.46e+02) -	9.40e+01 (9.35e+01) -	2.65e+03 (3.21e+02) -	2.69e+03 (4.73e+02) -	2.77e+03 (4.90e+02) -
CEC19-MaTSO6-T8	1.15e-02 (6.20e-03)	8.39e+02 (5.21e+02) -	1.30e+02 (1.29e+02) -	3.09e+03 (4.31e+02) -	2.76e+03 (3.98e+02) -	2.76e+03 (3.83e+02) -
CEC19-MaTSO6-T9	6.89e-03 (4.02e-03)	8.57e+02 (5.96e+02) -	9.34e+01 (8.30e+01) -	2.92e+03 (4.48e+02) -	2.75e+03 (4.69e+02) -	2.85e+03 (5.13e+02) -
CEC19-MaTSO6-T10	7.00e-03 (2.78e-03)	8.45e+02 (5.34e+02) -	1.06e+02 (1.17e+02) -	2.99e+03 (4.37e+02) -	2.66e+03 (3.92e+02) -	2.55e+03 (4.11e+02) -
CEC19-MaTSO6-T10	8.99e-03 (3.97e-03)	8.49e+02 (5.65e+02) -	5.81e+01 (5.02e+01) -	2.93e+03 (4.02e+02) -	2.78e+03 (4.61e+02) -	2.66e+03 (4.45e+02) -
CEC19-MaTSO6-T11	5.93e+00 (2.65e+01)	8.84e+02 (6.01e+02) -	1.63e+02 (1.89e+02) -	2.88e+03 (4.82e+02) -	2.64e+03 (4.03e+02) -	2.81e+03 (3.51e+02) -
CEC19-MaTSO6-T12	1.17e-02 (8.98e-03)	8.67e+02 (5.91e+02) -	1.07e+02 (8.35e+01) -	2.98e+03 (4.23e+02) -	2.75e+03 (4.46e+02) -	2.71e+03 (3.80e+02) -
CEC19-MaTSO6-T13	8.80e-03 (4.44e-03)	8.45e+02 (5.87e+02) -	9.97e+01 (1.18e+02) -	3.03e+03 (3.44e+02) -	2.76e+03 (4.20e+02) -	2.75e+03 (3.61e+02) -
CEC19-MaTSO6-T14	7.66e-03 (4.38e-03)	8.35e+02 (5.48e+02) -	1.04e+02 (1.01e+02) -	2.88e+03 (2.76e+02) -	2.59e+03 (2.41e+02) -	2.76e+03 (3.94e+02) -
CEC19-MaTSO6-T15	5.66e-03 (2.79e-03)	8.49e+02 (5.99e+02) -	1.00e+02 (1.03e+02) -	2.86e+03 (2.88e+02) -	2.76e+03 (3.29e+02) -	2.71e+03 (3.29e+02) -
CEC19-MaTSO6-T10	1.05e-02 (9.76e-03)	8.68e+02 (5.57e+02) -	1.03e+02 (1.03e+02) -	2.78e+03 (4.72e+02) -	2.70c+03 (3.29c+02) -	2.75e+03 (3.10e+02) -
CEC19-MaTSO6-T17	7.68e-03 (3.16e-03)	8.50e+02 (5.66e+02) -	1.19e+02 (1.27e+02) -	2.85e+03 (3.99e+02) -	2.65e+03 (3.82e+02) -	2.73e+03 (5.07e+02) -
CEC19-MaTSO6-T18	1.15e-02 (6.52e-03)	8.62e+02 (5.37e+02) -	1.87e+02 (2.59e+02) -	2.65e+03 (4.65e+02) -	2.63e+03 (4.74e+02) -	2.74e+03 (4.22e+02) -
CEC19-MaTSO6-T20	7.29e-03 (2.78e-03)	8.15e+02 (5.55e+02) -	1.35e+02 (2.39e+02) -	2.94e+03 (4.66e+02) -	2.82e+03 (4.23e+02) -	2.91e+03 (3.32e+02) -
CEC19-MaTSO6-T21	7.02e-03 (4.11e-03)	8.72e+02 (5.68e+02) -	1.85e+02 (1.57e+02) -	2.82e+03 (4.12e+02) -	2.82e+03 (4.63e+02) -	2.80e+03 (4.08e+02) -
CEC19-MaTSO6-T21	7.01e-03 (2.68e-03)	8.60e+02 (5.90e+02) -	9.30e+01 (7.44e+01) -	2.94e+03 (4.94e+02) -	2.94e+03 (4.71e+02) -	2.70e+03 (4.82e+02) -
CEC19-MaTSO6-T23	6.30e-03 (2.68e-03)	8.62e+02 (6.47e+02) -	1.06e+02 (1.06e+02) -	2.93e+03 (3.65e+02) -	2.71e+03 (4.05e+02) -	2.85e+03 (2.94e+02) -
CEC19-MaTSO6-T24	1.30e-02 (4.97e-03)	8.58e+02 (5.74e+02) -	1.50e+02 (1.00e+02) -	2.82e+03 (4.41e+02) -	2.78e+03 (4.63e+02) -	2.80e+03 (4.57e+02) -
CEC19-MaTSO6-T25	7.02e-03 (2.56e-03)	8.17e+02 (5.54e+02) -	1.06e+02 (1.20e+02) -	3.01e+03 (3.14e+02) -	3.04e+03 (5.61e+02) -	2.70e+03 (2.83e+02) -
CEC19-MaTSO6-125	8.96e-03 (5.72e-03)	8.58e+02 (6.18e+02) -	1.35e+02 (1.42e+02) -	3.01e+03 (3.14e+02) -	2.75e+03 (3.48e+02) -	2.70e+03 (2.83e+02) -
CEC19-MaTSO6-126 CEC19-MaTSO6-T27	7.89e-03 (4.42e-03)	8.91e+02 (6.25e+02) -	1.47e+02 (1.67e+02) -	2.77e+03 (4.40e+02) -	2.75e+03 (3.48e+02) -	2.48e+03 (3.83e+02) -
		. ,			` ,	
CEC19-MaTSO6-T28 CEC19-MaTSO6-T29	8.10e-03 (3.32e-03) 8.33e-03 (4.36e-03)	8.15e+02 (6.01e+02) - 8.19e+02 (5.44e+02) -	1.61e+02 (1.52e+02) - 8.26e+01 (6.87e+01) -	2.96e+03 (4.82e+02) - 2.69e+03 (4.39e+02) -	2.79e+03 (4.55e+02) - 2.55e+03 (5.13e+02) -	2.51e+03 (3.62e+02) - 2.54e+03 (4.40e+02) -
CEC19-MaTSO6-129	1.12e-02 (5.50e-03)	8.49e+02 (5.44e+02) -	1.31e+02 (1.44e+02) -	2.79e+03 (4.77e+02) -	2.79e+03 (4.41e+02) -	2.79e+03 (4.44e+02) -
CEC19-MaTSO6-T31	9.45e-03 (4.66e-03)	8.81e+02 (5.92e+02) -	1.31e+02 (1.44e+02) - 1.20e+02 (1.07e+02) -	2.86e+03 (3.67e+02) -	2.76e+03 (4.41e+02) -	2.75e+03 (4.44e+02) -
CEC19-MaTSO6-T31	9.43e-03 (4.66e-03) 1.10e-02 (4.58e-03)	8.56e+02 (5.27e+02) -	8.91e+01 (6.91e+01) -	3.01e+03 (4.28e+02) -	2.76e+03 (4.19e+02) -	2.62e+03 (2.95e+02) -
CEC19-MaTSO6-T32	1.10e-02 (4.38e-03) 1.12e-02 (4.82e-03)	8.70e+02 (5.27e+02) -	1.51e+02 (1.15e+02) -	3.01e+03 (4.28e+02) -	2.73e+03 (4.11e+02) -	2.62e+03 (2.93e+02) -
CEC19-MaTSO6-T34	6.76e-03 (3.05e-03)	8.55e+02 (5.79e+02) -	1.41e+02 (1.13e+02) -	2.95e+03 (2.97e+02) -	2.89e+03 (4.20e+02) -	2.70e+03 (4.50e+02) -
CEC19-MaTSO6-T35	1.22e-02 (5.80e-03)	8.72e+02 (5.86e+02) -	9.50e+01 (9.12e+01) -	3.01e+03 (3.30e+02) -	2.89e+03 (3.89e+02) -	2.70e+03 (3.33e+02) -
CEC19-MaTSO6-135	9.29e-03 (6.21e-03)	8.80e+02 (5.61e+02) -	9.50e+01 (9.12e+01) - 1.09e+02 (1.06e+02) -	3.14e+03 (3.56e+02) -	2.90e+03 (4.25e+02) - 2.82e+03 (2.89e+02) -	2.59e+03 (3.93e+02) -
	, ,	` /	( ,	( ,	( ,	( ,
CEC19-MaTSO6-T37 CEC19-MaTSO6-T38	6.34e-03 (2.39e-03)	8.73e+02 (6.27e+02) -	1.12e+02 (1.24e+02) -	3.11e+03 (6.03e+02) -	2.63e+03 (3.61e+02) -	2.86e+03 (5.31e+02) -
	5.92e-03 (2.31e-03)	8.61e+02 (5.72e+02) -	8.73e+01 (9.49e+01) -	2.82e+03 (3.89e+02) -	2.73e+03 (4.40e+02) -	2.62e+03 (4.42e+02) -
CEC19-MaTSO6-T39	9.32e-03 (4.54e-03)	8.71e+02 (5.71e+02) -	1.10e+02 (8.97e+01) -	2.84e+03 (4.24e+02) -	2.65e+03 (4.76e+02) -	2.53e+03 (3.89e+02) -
CEC19-MaTSO6-T40	1.03e-02 (3.83e-03)	8.36e+02 (5.93e+02) -	1.19e+02 (1.09e+02) -	2.91e+03 (4.05e+02) -	2.71e+03 (3.92e+02) -	2.76e+03 (4.56e+02) -
CEC19-MaTSO6-T41	7.67e-03 (4.24e-03)	8.35e+02 (5.70e+02) -	2.52e+02 (3.28e+02) -	2.68e+03 (4.64e+02) -	2.42e+03 (3.63e+02) -	2.60e+03 (3.45e+02) -
CEC19-MaTSO6-T42	7.98e-03 (5.72e-03)	8.59e+02 (6.07e+02) -	1.32e+02 (1.81e+02) -	2.88e+03 (3.72e+02) -	2.87e+03 (4.85e+02) -	2.64e+03 (3.68e+02) -
CEC10 MaTSO6-T43	6.58e-03 (2.03e-03)	8.60e+02 (5.83e+02) -	9.83e+01 (1.07e+02) -	2.93e+03 (3.63e+02) -	2.66e+03 (4.42e+02) -	2.64e+03 (4.57e+02) -
CEC19-MaTSO6-T44	4.99e-03 (2.24e-03)	8.60e+02 (5.68e+02) -	9.82e+01 (9.11e+01) -	2.84e+03 (3.58e+02) -	2.68e+03 (4.15e+02) -	2.82e+03 (5.67e+02) -
CEC19-MaTSO6-T45	1.16e-02 (1.43e-02)	7.94e+02 (5.92e+02) -	1.15e+02 (1.04e+02) -	2.83e+03 (3.85e+02) -	2.67e+03 (3.08e+02) -	2.66e+03 (5.25e+02) -
CEC19-MaTSO6-T46	7.99e-03 (4.09e-03)	8.79e+02 (5.71e+02) -	2.11e+02 (1.89e+02) -	2.98e+03 (3.22e+02) -	2.74e+03 (4.37e+02) -	2.62e+03 (3.99e+02) -
CEC19-MaTSO6-T47	8.94e-03 (4.53e-03)	8.72e+02 (6.24e+02) -	1.51e+02 (1.43e+02) -	2.74e+03 (4.44e+02) -	2.62e+03 (4.33e+02) -	2.58e+03 (4.33e+02) -
CEC19-MaTSO6-T48	8.31e-03 (4.30e-03)	8.18e+02 (5.43e+02) -	1.14e+02 (1.03e+02) -	2.89e+03 (4.52e+02) -	2.56e+03 (4.29e+02) -	2.67e+03 (3.98e+02) -
CEC19-MaTSO6-T49	1.19e-02 (6.19e-03)	8.53e+02 (5.81e+02) -	1.89e+02 (2.66e+02) -	2.72e+03 (4.11e+02) -	2.58e+03 (4.02e+02) -	2.62e+03 (2.72e+02) -
CEC19-MaTSO6-T50	5.54e-03 (2.25e-03)	8.47e+02 (6.03e+02) -	7.82e+01 (6.05e+01) -	2.72e+03 (4.48e+02) -	2.77e+03 (5.30e+02) -	2.68e+03 (5.01e+02) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0

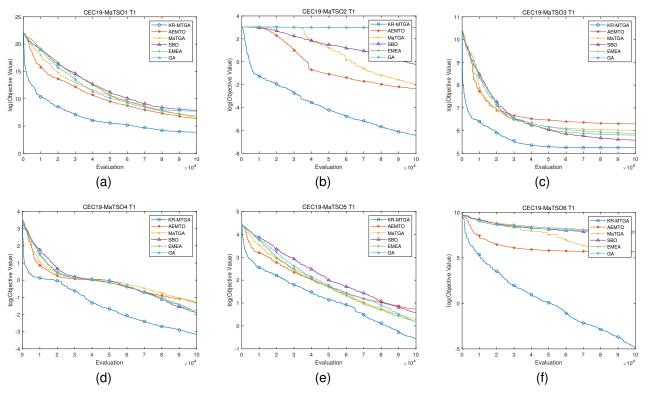


Fig. S5. Average convergence trends of six compared methods, i.e., KR-MTGA,AEMTO, MaTGA,SBO,EMEA, and single-tasking GA on CEC19-MaTSO.

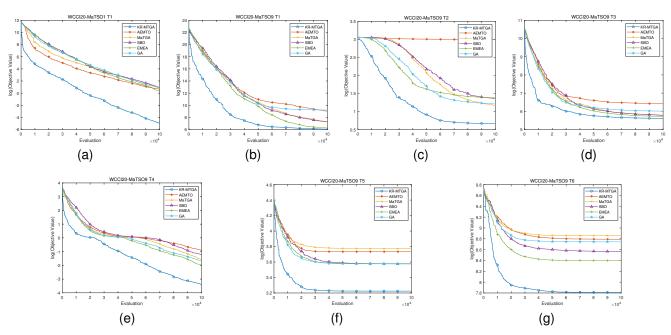


Fig. S6. Average convergence trends of six compared methods, i.e., KR-MTGA,AEMTO, MaTGA,SBO,EMEA, and single-tasking DE on WCCI20-MaTSO.

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO1 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO1 IN TEST SUITE 4.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO1-T1	9.68e-03 (4.46e-03)	2.33e+00 (4.61e-01) -	2.04e+00 (4.69e-01) -	2.69e+00 (6.78e-01) -	1.81e+00 (4.07e-01) -	1.99e+00 (6.05e-01) -
WCCI20-MaTSO1-T2	1.21e-02 (7.74e-03)	2.44e+00 (5.84e-01) -	1.96e+00 (4.11e-01) -	9.20e+00 (3.01e+00) -	1.99e+00 (4.54e-01) -	2.05e+00 (6.86e-01) -
WCCI20-MaTSO1-T3	1.10e-02 (5.52e-03)	2.64e+00 (6.57e-01) -	2.14e+00 (5.19e-01) -	8.55e+00 (2.99e+00) -	1.92e+00 (4.25e-01) -	1.95e+00 (3.44e-01) -
WCCI20-MaTSO1-T4	8.00e-03 (4.15e-03)	2.81e+00 (7.72e-01) -	2.20e+00 (6.58e-01) -	8.91e+00 (3.32e+00) -	1.86e+00 (4.18e-01) -	1.98e+00 (5.25e-01) -
WCCI20-MaTSO1-T5	7.82e-03 (4.17e-03)	2.73e+00 (5.53e-01) -	2.02e+00 (4.07e-01) -	8.75e+00 (3.05e+00) -	1.99e+00 (4.69e-01) -	1.92e+00 (5.93e-01) -
WCCI20-MaTSO1-T6	1.11e-02 (6.19e-03)	2.96e+00 (6.77e-01) -	2.31e+00 (5.35e-01) -	8.51e+00 (3.25e+00) -	2.05e+00 (3.77e-01) -	2.10e+00 (4.89e-01) -
WCCI20-MaTSO1-T7	8.10e-03 (3.69e-03)	3.06e+00 (1.10e+00) -	2.51e+00 (5.21e-01) -	8.06e+00 (2.23e+00) -	1.90e+00 (4.32e-01) -	1.89e+00 (5.52e-01) -
WCCI20-MaTSO1-T8	9.20e-03 (3.90e-03)	2.98e+00 (7.44e-01) -	2.12e+00 (4.11e-01) -	8.68e+00 (2.60e+00) -	1.86e+00 (5.41e-01) -	1.89e+00 (2.49e-01) -
WCCI20-MaTSO1-T9	1.13e-02 (6.99e-03)	2.82e+00 (7.48e-01) -	2.17e+00 (3.96e-01) -	9.09e+00 (3.59e+00) -	1.87e+00 (5.58e-01) -	1.90e+00 (5.28e-01) -
WCCI20-MaTSO1-T10	1.02e-02 (5.95e-03)	2.99e+00 (7.31e-01) -	2.13e+00 (4.68e-01) -	9.13e+00 (2.94e+00) -	2.04e+00 (5.88e-01) -	1.92e+00 (5.07e-01) -
WCCI20-MaTSO1-T11	7.73e-03 (3.95e-03)	2.72e+00 (5.75e-01) -	2.22e+00 (7.05e-01) -	1.06e+01 (5.45e+00) -	2.04e+00 (6.30e-01) -	1.94e+00 (5.10e-01) -
WCCI20-MaTSO1-T12	7.36e-03 (5.69e-03)	2.56e+00 (6.01e-01) -	1.99e+00 (4.81e-01) -	9.54e+00 (3.33e+00) -	2.14e+00 (5.87e-01) -	2.01e+00 (4.04e-01) -
WCCI20-MaTSO1-T13	6.94e-03 (3.70e-03)	2.43e+00 (4.83e-01) -	2.19e+00 (5.67e-01) -	1.01e+01 (6.34e+00) -	1.95e+00 (5.53e-01) -	2.00e+00 (4.34e-01) -
WCCI20-MaTSO1-T14	1.19e-02 (7.12e-03)	2.71e+00 (5.40e-01) -	2.12e+00 (4.87e-01) -	8.93e+00 (4.61e+00) -	1.93e+00 (5.00e-01) -	1.73e+00 (5.60e-01) -
WCCI20-MaTSO1-T15	1.22e-02 (6.40e-03)	2.86e+00 (8.74e-01) -	2.22e+00 (7.16e-01) -	8.66e+00 (4.67e+00) -	1.95e+00 (6.13e-01) -	1.88e+00 (3.39e-01) -
WCCI20-MaTSO1-T16	1.03e-02 (7.88e-03)	3.05e+00 (1.01e+00) -	1.89e+00 (3.76e-01) -	8.64e+00 (2.74e+00) -	1.82e+00 (4.47e-01) -	1.97e+00 (5.98e-01) -
WCCI20-MaTSO1-T17	1.06e-02 (3.80e-03)	3.07e+00 (8.19e-01) -	2.34e+00 (6.03e-01) -	8.55e+00 (1.75e+00) -	1.86e+00 (4.20e-01) -	1.84e+00 (4.64e-01) -
WCCI20-MaTSO1-T18	8.21e-03 (4.62e-03)	2.64e+00 (6.43e-01) -	2.09e+00 (3.92e-01) -	7.99e+00 (2.22e+00) -	2.01e+00 (3.37e-01) -	2.20e+00 (4.47e-01) -
WCCI20-MaTSO1-T19	1.19e-02 (6.77e-03)	3.17e+00 (6.32e-01) -	2.16e+00 (5.65e-01) -	8.58e+00 (2.59e+00) -	1.97e+00 (3.92e-01) -	1.82e+00 (5.72e-01) -
WCCI20-MaTSO1-T20	7.67e-03 (4.05e-03)	2.94e+00 (5.41e-01) -	2.14e+00 (5.35e-01) -	9.89e+00 (2.60e+00) -	1.97e+00 (4.87e-01) -	1.85e+00 (4.67e-01) -
WCCI20-MaTSO1-T21	8.68e-03 (3.40e-03)	2.55e+00 (5.41e-01) -	2.02e+00 (5.20e-01) -	9.05e+00 (3.82e+00) -	1.75e+00 (5.66e-01) -	2.11e+00 (6.15e-01) -
WCCI20-MaTSO1-T22	9.31e-03 (5.65e-03)	2.65e+00 (5.60e-01) -	2.18e+00 (6.05e-01) -	8.63e+00 (2.20e+00) -	1.94e+00 (4.65e-01) -	1.81e+00 (4.34e-01) -
WCCI20-MaTSO1-T23	8.82e-03 (3.40e-03)	3.18e+00 (8.31e-01) -	2.23e+00 (5.00e-01) -	8.18e+00 (3.05e+00) -	2.02e+00 (6.72e-01) -	1.99e+00 (5.89e-01) -
WCCI20-MaTSO1-T24	1.01e-02 (7.67e-03)	2.85e+00 (6.30e-01) -	2.13e+00 (4.27e-01) -	8.88e+00 (2.53e+00) -	1.97e+00 (5.06e-01) -	1.97e+00 (3.94e-01) -
WCCI20-MaTSO1-T25	1.34e-02 (7.23e-03)	3.15e+00 (7.20e-01) -	2.16e+00 (4.02e-01) -	7.41e+00 (2.22e+00) -	2.13e+00 (4.00e-01) -	1.87e+00 (4.58e-01) -
WCCI20-MaTSO1-T26	9.02e-03 (3.44e-03)	2.74e+00 (6.83e-01) -	1.90e+00 (4.64e-01) -	7.52e+00 (2.33e+00) -	1.94e+00 (5.43e-01) -	2.15e+00 (5.06e-01) -
WCCI20-MaTSO1-T27	9.37e-03 (5.19e-03)	3.16e+00 (8.13e-01) -	2.14e+00 (5.39e-01) -	9.73e+00 (3.55e+00) -	1.80e+00 (6.06e-01) -	1.92e+00 (5.41e-01) -
WCCI20-MaTSO1-T28	9.87e-03 (4.99e-03)	2.69e+00 (6.77e-01) -	2.33e+00 (5.39e-01) -	7.86e+00 (2.13e+00) -	1.88e+00 (4.83e-01) -	1.95e+00 (3.45e-01) -
WCCI20-MaTSO1-T29	1.02e-02 (6.49e-03)	2.65e+00 (6.74e-01) -	2.26e+00 (5.76e-01) -	8.50e+00 (2.93e+00) -	1.93e+00 (4.78e-01) -	1.92e+00 (4.31e-01) -
WCCI20-MaTSO1-T30	1.30e-02 (6.40e-03)	2.70e+00 (5.01e-01) -	2.07e+00 (3.74e-01) -	7.80e+00 (2.65e+00) -	1.91e+00 (4.61e-01) -	2.02e+00 (6.53e-01) -
WCCI20-MaTSO1-T31	1.94e-02 (1.18e-02)	3.17e+00 (6.84e-01) -	2.17e+00 (4.94e-01) -	9.11e+00 (3.81e+00) -	1.89e+00 (6.14e-01) -	1.77e+00 (4.05e-01) -
WCCI20-MaTSO1-T32	1.10e-02 (5.41e-03)	3.22e+00 (9.54e-01) -	1.95e+00 (4.97e-01) -	9.35e+00 (5.09e+00) -	1.70e+00 (3.58e-01) -	2.05e+00 (5.58e-01) -
WCCI20-MaTSO1-T33	7.65e-03 (3.98e-03)	2.84e+00 (7.49e-01) -	2.30e+00 (7.07e-01) -	7.78e+00 (3.00e+00) -	1.72e+00 (4.90e-01) -	1.82e+00 (4.46e-01) -
WCCI20-MaTSO1-T34	1.15e-02 (5.59e-03)	3.18e+00 (8.41e-01) -	2.15e+00 (6.14e-01) -	7.44e+00 (1.48e+00) -	1.95e+00 (5.60e-01) -	1.92e+00 (4.10e-01) -
WCCI20-MaTSO1-T35	6.78e-03 (4.30e-03)	2.61e+00 (6.65e-01) -	2.11e+00 (4.28e-01) -	8.35e+00 (2.36e+00) -	1.86e+00 (3.05e-01) -	2.04e+00 (4.97e-01) -
WCCI20-MaTSO1-T36	1.08e-02 (4.05e-03)	3.15e+00 (8.46e-01) -	2.38e+00 (6.00e-01) -	9.81e+00 (4.98e+00) -	1.98e+00 (5.26e-01) -	1.85e+00 (3.67e-01) -
WCCI20-MaTSO1-T37	1.02e-02 (6.33e-03)	2.55e+00 (7.42e-01) -	1.98e+00 (5.23e-01) -	9.22e+00 (2.89e+00) -	1.98e+00 (4.76e-01) -	1.89e+00 (6.01e-01) -
WCCI20-MaTSO1-T38	8.47e-03 (4.81e-03)	2.89e+00 (6.06e-01) -	2.02e+00 (5.19e-01) -	8.89e+00 (2.61e+00) -	1.93e+00 (5.18e-01) -	1.96e+00 (6.46e-01) -
WCCI20-MaTSO1-T39	1.09e-02 (4.04e-03)	2.85e+00 (8.93e-01) -	2.11e+00 (5.77e-01) -	8.57e+00 (3.09e+00) -	1.72e+00 (5.27e-01) -	1.81e+00 (4.31e-01) -
WCCI20-MaTSO1-T40	8.04e-03 (3.57e-03)	2.85e+00 (7.58e-01) -	2.00e+00 (5.50e-01) -	8.17e+00 (2.60e+00) -	1.83e+00 (5.66e-01) -	1.83e+00 (5.19e-01) -
WCCI20-MaTSO1-T41	7.48e-03 (2.77e-03)	2.82e+00 (7.12e-01) -	2.29e+00 (4.81e-01) -	8.12e+00 (2.29e+00) -	1.93e+00 (4.46e-01) -	1.96e+00 (3.98e-01) -
WCCI20-MaTSO1-T42	1.20e-02 (6.98e-03)	3.00e+00 (7.59e-01) -	2.22e+00 (5.67e-01) -	9.54e+00 (2.39e+00) -	1.72e+00 (4.42e-01) -	1.98e+00 (6.71e-01) -
WCCI20-MaTSO1-T43	7.28e-03 (3.59e-03)	2.60e+00 (7.18e-01) -	2.06e+00 (4.10e-01) -	9.67e+00 (3.98e+00) -	1.97e+00 (5.79e-01) -	1.82e+00 (3.04e-01) -
WCCI20-MaTSO1-T44	1.23e-02 (6.82e-03)	2.59e+00 (6.27e-01) -	2.00e+00 (5.10e-01) -	9.05e+00 (2.66e+00) -	1.73e+00 (4.70e-01) -	2.08e+00 (5.84e-01) -
WCCI20-MaTSO1-T45	1.48e-02 (8.03e-03)	3.44e+00 (9.61e-01) -	2.27e+00 (6.30e-01) -	8.23e+00 (2.69e+00) -	1.89e+00 (5.38e-01) -	1.92e+00 (5.26e-01) -
WCCI20-MaTSO1-T46	7.20e-03 (3.54e-03)	2.50e+00 (4.46e-01) -	2.08e+00 (6.69e-01) -	8.14e+00 (1.77e+00) -	1.98e+00 (3.61e-01) -	1.91e+00 (4.84e-01) -
WCCI20-MaTSO1-T47	8.18e-03 (6.68e-03)	2.51e+00 (6.63e-01) -	2.15e+00 (4.20e-01) -	8.87e+00 (2.49e+00) -	2.06e+00 (4.61e-01) -	2.05e+00 (5.14e-01) -
WCCI20-MaTSO1-T48	1.51e-02 (7.79e-03)	2.71e+00 (6.47e-01) -	2.07e+00 (5.47e-01) -	7.37e+00 (2.03e+00) -	2.07e+00 (4.30e-01) -	1.91e+00 (5.08e-01) -
WCCI20-MaTSO1-T49	1.08e-02 (3.85e-03)	3.35e+00 (8.68e-01) -	2.10e+00 (6.08e-01) -	9.10e+00 (2.33e+00) -	1.76e+00 (3.69e-01) -	1.80e+00 (4.00e-01) -
WCCI20-MaTSO1-T50	1.08e-02 (4.73e-03)	2.79e+00 (8.64e-01) -	2.03e+00 (4.78e-01) -	8.86e+00 (3.77e+00) -	1.93e+00 (4.04e-01) -	1.83e+00 (5.36e-01) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0
17 7=	Duse	0,50,0	0,50,0	0,50,0	0,50,0	0,50,0

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO2 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO2 IN TEST SUITE 4.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO2-T1	1.14e+02 (3.99e+01)	6.02e+03 (1.06e+04) -	8.72e+02 (8.28e+02) -	4.83e+04 (9.49e+04) -	1.76e+04 (2.71e+04) -	3.22e+04 (7.62e+04) -
WCCI20-MaTSO2-T2	3.29e+02 (5.79e+01)	3.24e+03 (6.04e+03) -	1.51e+03 (2.02e+03) -	2.07e+04 (4.28e+04) -	5.02e+03 (5.24e+03) -	1.11e+04 (2.02e+04) -
WCCI20-MaTSO2-T3	1.56e+02 (7.30e+01)	4.77e+03 (1.19e+04) -	8.30e+02 (7.32e+02) -	6.40e+04 (1.44e+05) -	1.55e+04 (4.32e+04) -	2.28e+04 (5.34e+04) -
WCCI20-MaTSO2-T4	2.02e+02 (1.08e+02)	5.11e+03 (9.90e+03) -	3.00e+03 (6.29e+03) -	3.40e+04 (7.66e+04) -	9.62e+03 (2.38e+04) -	3.02e+03 (3.38e+03) -
WCCI20-MaTSO2-T5	2.30e+02 (8.56e+01)	4.55e+03 (1.19e+04) -	1.51e+03 (2.20e+03) -	5.62e+04 (1.34e+05) -	2.39e+04 (4.93e+04) -	3.33e+04 (6.32e+04) -
WCCI20-MaTSO2-T6	1.19e+02 (5.17e+01)	6.37e+03 (1.72e+04) -	2.12e+03 (5.66e+03) -	8.27e+04 (1.46e+05) -	5.59e+04 (1.16e+05) -	1.50e+04 (2.10e+04) -
WCCI20-MaTSO2-T7	1.69e+02 (1.09e+02)	4.82e+03 (8.86e+03) -	1.45e+03 (1.54e+03) -	5.65e+04 (1.11e+05) -	1.11e+04 (2.48e+04) -	1.70e+04 (3.92e+04) -
WCCI20-MaTSO2-T8	1.14e+02 (5.56e+01)	5.69e+03 (1.29e+04) -	7.57e+03 (2.58e+04) -	4.85e+04 (9.84e+04) -	2.50e+04 (7.37e+04) -	2.70e+04 (4.28e+04) -
WCCI20-MaTSO2-T9	3.53e+02 (1.52e+02)	3.69e+03 (5.32e+03) -	1.95e+03 (2.48e+03) -	5.99e+04 (1.01e+05) -	1.47e+04 (3.18e+04) -	2.24e+04 (5.03e+04) -
WCCI20-MaTSO2-T10	1.10e+02 (4.14e+01)	4.12e+03 (6.31e+03) -	4.85e+03 (1.41e+04) -	7.11e+04 (1.07e+05) -	9.34e+03 (3.00e+04) -	3.38e+03 (3.61e+03) -
WCCI20-MaTSO2-T11	1.33e+02 (6.27e+01)	8.53e+03 (1.96e+04) -	1.20e+03 (1.14e+03) -	9.21e+04 (1.43e+05) -	1.12e+04 (3.79e+04) -	4.07e+04 (1.19e+05) -
WCCI20-MaTSO2-T12	1.08e+02 (4.63e+01)	6.69e+03 (1.43e+04) -	2.88e+03 (5.13e+03) -	6.55e+04 (1.24e+05) -	1.29e+04 (3.01e+04) -	4.72e+03 (6.36e+03) -
WCCI20-MaTSO2-T13	1.25e+02 (6.87e+01)	5.03e+03 (1.04e+04) -	3.61e+03 (6.07e+03) -	6.00e+04 (1.06e+05) -	1.75e+04 (5.90e+04) -	1.25e+04 (3.40e+04) -
WCCI20-MaTSO2-T13	8.13e+01 (2.85e+01)	4.48e+03 (9.27e+03) -	1.29e+03 (8.72e+02) -	6.58e+04 (1.62e+05) -	2.35e+04 (4.35e+04) -	5.34e+03 (1.11e+04) -
WCCI20-MaTSO2-T15	3.26e+02 (1.64e+02)	4.74e+03 (1.05e+04) -	9.06e+02 (5.38e+02) -	6.46e+04 (1.25e+05) -	9.64e+03 (1.76e+04) -	1.28e+04 (1.90e+04) -
WCCI20-MaTSO2-T16	6.18e+01 (1.48e+01)	5.87e+03 (1.33e+04) -	4.82e+03 (1.65e+04) -	5.91e+04 (1.19e+05) -	7.16e+04 (1.19e+05) -	9.42e+03 (1.84e+04) -
WCCI20-MaTSO2-T17	1.69e+02 (7.67e+01)	7.19e+03 (1.61e+04) -	2.46e+03 (3.78e+03) -	8.11e+04 (1.41e+05) -	2.39e+04 (4.15e+04) -	2.10e+04 (4.60e+04) -
WCCI20-MaTSO2-T17	2.14e+02 (1.22e+02)	5.98e+03 (1.35e+04) -	1.39e+03 (1.98e+03) -	4.10e+04 (9.17e+04) -	1.17e+04 (2.90e+04) -	1.59e+04 (3.71e+04) -
WCCI20-MaTSO2-T19	7.93e+01 (3.01e+01)	5.07e+03 (1.21e+04) -	1.54e+03 (2.51e+03) -	4.27e+04 (7.49e+04) -	1.06e+04 (1.82e+04) -	2.15e+04 (3.22e+04) -
WCCI20-MaTSO2-T19	1.59e+02 (6.24e+01)	4.75e+03 (1.09e+04) -	4.14e+03 (1.33e+04) -	8.62e+04 (1.59e+05) -	1.26e+04 (2.04e+04) -	1.56e+04 (3.41e+04) -
WCCI20-MaTSO2-T21	1.44e+02 (7.90e+01)	5.21e+03 (1.24e+04) -	7.66e+03 (1.88e+04) -	4.30e+04 (8.82e+04) -	9.05e+03 (1.58e+04) -	8.46e+03 (1.27e+04) -
WCCI20-MaTSO2-T21	1.11e+02 (5.28e+01)	5.21e+03 (1.24e+04) - 6.68e+03 (1.48e+04) -	2.64e+03 (4.30e+03) -	4.64e+04 (1.12e+05) -	3.45e+04 (9.09e+04) -	2.46e+04 (4.94e+04) -
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WCCI20-MaTSO2-T23 WCCI20-MaTSO2-T24	1.16e+02 (5.60e+01)	3.66e+03 (5.38e+03) -	1.91e+03 (2.87e+03) -	6.01e+04 (9.88e+04) - 4.98e+04 (8.69e+04) -	1.01e+04 (1.74e+04) -	1.08e+04 (1.88e+04) -
	9.80e+01 (3.51e+01)	8.21e+03 (1.70e+04) -	2.10e+03 (2.79e+03) -		2.65e+04 (4.76e+04) -	9.48e+03 (2.35e+04) -
WCCI20-MaTSO2-T25 WCCI20-MaTSO2-T26	1.45e+02 (6.62e+01)	5.84e+03 (1.02e+04) -	1.48e+03 (9.70e+02) -	4.27e+04 (9.05e+04) -	1.59e+04 (3.50e+04) -	5.90e+03 (9.86e+03) -
WCCI20-MaTSO2-T27	1.23e+02 (5.45e+01)	2.39e+04 (8.20e+04) -	1.51e+03 (1.49e+03) -	4.90e+04 (9.65e+04) -	1.93e+04 (4.83e+04) -	9.76e+03 (1.66e+04) -
	1.67e+02 (6.74e+01)	4.09e+03 (7.71e+03) -	1.15e+03 (1.44e+03) -	4.62e+04 (9.40e+04) -	1.83e+04 (3.61e+04) -	9.39e+03 (2.14e+04) -
WCCI20-MaTSO2-T28	9.85e+01 (5.42e+01)	4.53e+03 (8.34e+03) -	1.50e+03 (1.90e+03) -	6.97e+04 (1.33e+05) -	1.26e+04 (2.43e+04) -	1.49e+04 (2.30e+04) -
WCCI20-MaTSO2-T29	9.50e+01 (4.08e+01)	5.74e+03 (1.43e+04) -	7.91e+02 (7.02e+02) -	5.66e+04 (1.01e+05) -	1.63e+04 (3.68e+04) -	1.16e+04 (2.48e+04) -
WCCI20-MaTSO2-T30	4.56e+02 (1.69e+02)	5.96e+03 (1.48e+04) -	2.09e+03 (2.89e+03) -	2.46e+04 (6.37e+04) -	1.39e+04 (3.37e+04) -	2.72e+04 (5.32e+04) -
WCCI20-MaTSO2-T31	1.42e+02 (8.14e+01)	4.91e+03 (9.92e+03) -	4.00e+03 (1.05e+04) -	3.75e+04 (7.52e+04) -	5.32e+03 (7.31e+03) -	5.07e+04 (1.56e+05) -
WCCI20-MaTSO2-T32	1.80e+02 (1.01e+02)	3.74e+03 (7.15e+03) -	2.28e+03 (5.64e+03) -	4.42e+04 (1.02e+05) -	4.11e+04 (7.72e+04) -	1.74e+04 (5.09e+04) -
WCCI20-MaTSO2-T33	1.30e+02 (4.35e+01)	6.58e+03 (1.57e+04) -	8.60e+02 (5.65e+02) -	9.46e+04 (1.72e+05) -	2.80e+04 (6.36e+04) -	1.46e+04 (2.94e+04) -
WCCI20-MaTSO2-T34	7.26e+01 (2.55e+01)	4.87e+03 (6.16e+03) -	1.00e+03 (8.15e+02) -	7.28e+04 (1.18e+05) -	1.82e+04 (4.01e+04) -	1.61e+04 (3.21e+04) -
WCCI20-MaTSO2-T35	1.20e+02 (6.05e+01)	5.70e+03 (1.08e+04) -	2.27e+03 (3.70e+03) -	6.41e+04 (1.35e+05) -	8.12e+03 (1.02e+04) -	1.72e+04 (3.44e+04) -
WCCI20-MaTSO2-T36	1.48e+02 (7.24e+01)	6.44e+03 (1.62e+04) -	9.67e+02 (1.30e+03) -	4.16e+04 (9.60e+04) -	2.99e+04 (7.48e+04) -	1.86e+04 (5.88e+04) -
WCCI20-MaTSO2-T37	1.05e+02 (7.80e+01)	5.02e+03 (1.09e+04) -	6.20e+03 (2.45e+04) -	5.93e+04 (9.50e+04) -	2.66e+04 (5.69e+04) -	7.09e+03 (8.39e+03) -
WCCI20-MaTSO2-T38	2.22e+02 (1.16e+02)	7.15e+03 (1.98e+04) -	1.42e+03 (1.85e+03) -	7.32e+04 (1.42e+05) -	1.90e+04 (2.67e+04) -	1.49e+04 (4.77e+04) -
WCCI20-MaTSO2-T39	5.09e+02 (2.58e+02)	4.34e+03 (5.70e+03) -	1.77e+03 (3.40e+03) =	3.14e+04 (6.69e+04) -	1.37e+04 (3.04e+04) -	1.55e+04 (3.35e+04) -
WCCI20-MaTSO2-T40	1.74e+02 (5.58e+01)	5.55e+03 (1.01e+04) -	1.41e+03 (1.53e+03) -	3.94e+04 (8.60e+04) -	1.15e+04 (2.45e+04) -	1.06e+04 (2.30e+04) -
WCCI20-MaTSO2-T41	3.25e+02 (1.29e+02)	4.06e+03 (1.06e+04) -	1.29e+04 (5.37e+04) -	4.31e+04 (9.45e+04) -	9.58e+03 (1.95e+04) -	1.36e+04 (3.79e+04) -
WCCI20-MaTSO2-T42	1.15e+02 (7.46e+01)	5.41e+03 (6.44e+03) -	1.86e+03 (2.67e+03) -	4.71e+04 (7.35e+04) -	5.74e+03 (8.46e+03) -	2.17e+04 (3.97e+04) -
WCCI20-MaTSO2-T43	9.25e+01 (2.85e+01)	7.12e+03 (1.65e+04) -	2.42e+03 (3.88e+03) -	7.09e+04 (1.53e+05) -	1.01e+04 (2.56e+04) -	4.22e+04 (1.27e+05) -
WCCI20-MaTSO2-T44	9.56e+01 (4.52e+01)	4.57e+03 (8.23e+03) -	2.65e+03 (4.11e+03) -	3.37e+04 (7.18e+04) -	1.10e+04 (2.36e+04) -	1.75e+04 (3.02e+04) -
WCCI20-MaTSO2-T45	1.52e+02 (8.97e+01)	5.22e+03 (1.16e+04) -	1.24e+03 (1.97e+03) -	2.99e+04 (5.20e+04) -	5.79e+03 (1.34e+04) -	1.31e+04 (2.08e+04) -
WCCI20-MaTSO2-T46	1.27e+02 (5.31e+01)	2.31e+03 (1.96e+03) -	8.34e+03 (2.55e+04) -	6.05e+04 (1.29e+05) -	1.70e+04 (3.94e+04) -	2.39e+04 (4.81e+04) -
WCCI20-MaTSO2-T47	2.97e+02 (1.18e+02)	4.79e+03 (1.28e+04) -	1.18e+03 (8.72e+02) -	4.33e+04 (8.24e+04) -	6.61e+03 (1.84e+04) -	1.30e+04 (2.37e+04) -
WCCI20-MaTSO2-T48	1.76e+02 (9.65e+01)	5.49e+03 (1.16e+04) -	1.55e+03 (1.56e+03) -	4.16e+04 (7.30e+04) -	1.88e+04 (4.02e+04) -	1.71e+04 (3.23e+04) -
WCCI20-MaTSO2-T49	1.12e+02 (4.69e+01)	6.17e+03 (1.17e+04) -	2.40e+03 (4.62e+03) -	4.32e+04 (8.16e+04) -	2.10e+04 (4.61e+04) -	3.07e+04 (7.33e+04) -
WCCI20-MaTSO2-T50	1.36e+02 (4.14e+01)	5.56e+03 (1.12e+04) -	3.86e+03 (1.25e+04) -	7.33e+04 (1.42e+05) -	1.20e+04 (3.86e+04) -	1.56e+04 (2.31e+04) -
+/-/=	Base	0/50/0	0/49/1	0/50/0	0/50/0	0/50/0

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO3 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO3 IN TEST SUITE 4.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO3-T1	1.53e+02 (4.56e+01)	2.75e+02 (4.16e+01) -	2.99e+02 (3.86e+01) -	3.08e+02 (4.97e+01) -	3.09e+02 (5.00e+01) -	2.94e+02 (6.39e+01) -
WCCI20-MaTSO3-T2	1.61e+02 (2.43e+01)	2.59e+02 (4.63e+01) -	2.86e+02 (5.73e+01) -	3.57e+02 (6.05e+01) -	4.08e+02 (1.36e+01) -	3.29e+02 (7.61e+01) -
WCCI20-MaTSO3-T3	1.56e+02 (3.60e+01)	2.78e+02 (5.29e+01) -	2.87e+02 (5.07e+01) -	3.51e+02 (5.43e+01) -	3.31e+02 (6.59e+01) -	3.07e+02 (6.40e+01) -
WCCI20-MaTSO3-T4	1.53e+02 (3.55e+01)	3.02e+02 (5.06e+01) -	2.77e+02 (4.98e+01) -	3.26e+02 (4.25e+01) -	4.14e+02 (1.65e+01) -	3.55e+02 (7.41e+01) -
WCCI20-MaTSO3-T5	1.55e+02 (4.13e+01)	3.11e+02 (5.21e+01) -	2.79e+02 (4.72e+01) -	3.44e+02 (4.05e+01) -	3.01e+02 (5.26e+01) -	3.01e+02 (5.86e+01) -
WCCI20-MaTSO3-T6	1.68e+02 (3.85e+01)	3.17e+02 (5.44e+01) -	2.81e+02 (6.61e+01) -	3.62e+02 (5.31e+01) -	4.09e+02 (1.58e+01) -	3.31e+02 (4.83e+01) -
WCCI20-MaTSO3-T7	1.60e+02 (2.93e+01)	3.15e+02 (4.01e+01) -	2.99e+02 (5.16e+01) -	3.33e+02 (5.72e+01) -	3.15e+02 (9.75e+01) -	3.20e+02 (5.53e+01) -
WCCI20-MaTSO3-T8	1.52e+02 (2.76e+01)	3.30e+02 (5.72e+01) -	2.89e+02 (4.65e+01) -	3.67e+02 (4.89e+01) -	4.10e+02 (1.39e+01) -	3.03e+02 (6.04e+01) -
WCCI20-MaTSO3-T9	1.64e+02 (2.93e+01)	3.25e+02 (4.39e+01) -	2.99e+02 (5.72e+01) -	3.51e+02 (8.66e+01) -	3.28e+02 (5.59e+01) -	3.38e+02 (6.74e+01) -
WCCI20-MaTSO3-T10	1.79e+02 (4.19e+01)	3.06e+02 (5.37e+01) -	2.87e+02 (3.45e+01) -	3.46e+02 (6.91e+01) -	4.08e+02 (1.96e+01) -	3.08e+02 (4.79e+01) -
WCCI20-MaTSO3-T11	1.60e+02 (3.38e+01)	3.28e+02 (5.88e+01) -	2.93e+02 (5.33e+01) -	3.65e+02 (7.49e+01) -	3.65e+02 (5.67e+01) -	3.14e+02 (5.43e+01) -
WCCI20-MaTSO3-T12	1.44e+02 (3.21e+01)	3.43e+02 (6.33e+01) -	3.10e+02 (4.51e+01) -	3.32e+02 (7.19e+01) -	4.11e+02 (2.16e+01) -	3.42e+02 (5.66e+01) -
WCCI20-MaTSO3-T12	1.44e+02 (3.71e+01)	2.95e+02 (5.54e+01) -	3.12e+02 (6.13e+01) -	3.37e+02 (6.58e+01) -	3.36e+02 (6.27e+01) -	3.39e+02 (5.87e+01) -
WCCI20-MaTSO3-T14	1.46e+02 (3.92e+01)	3.25e+02 (5.02e+01) -	3.01e+02 (5.02e+01) -	3.43e+02 (7.00e+01) -	4.06e+02 (1.88e+01) -	3.33e+02 (6.37e+01) -
WCCI20-MaTSO3-T15	1.55e+02 (3.99e+01)	3.35e+02 (5.64e+01) -	3.10e+02 (6.66e+01) -	3.32e+02 (5.14e+01) -	3.23e+02 (4.61e+01) -	3.18e+02 (6.16e+01) -
WCCI20-MaTSO3-T16	1.64e+02 (3.88e+01)	2.96e+02 (4.68e+01) -	2.94e+02 (3.99e+01) -	3.28e+02 (5.14e+01) -	4.06e+02 (1.81e+01) -	3.15e+02 (6.44e+01) -
WCCI20-MaTSO3-T17	1.63e+02 (4.18e+01)	3.23e+02 (6.80e+01) -	2.76e+02 (5.31e+01) -	3.72e+02 (6.48e+01) -	3.13e+02 (6.38e+01) -	3.24e+02 (5.05e+01) -
WCCI20-MaTSO3-T17	1.52e+02 (4.16e+01)	2.89e+02 (4.67e+01) -	2.89e+02 (5.08e+01) -	3.44e+02 (7.60e+01) -	4.08e+02 (0.36e+01) -	3.38e+02 (6.15e+01) -
WCCI20-MaTSO3-T19	1.60e+02 (3.79e+01)	3.01e+02 (5.24e+01) -	2.88e+02 (5.95e+01) -	3.42e+02 (7.60e+01) -	3.21e+02 (7.72e+01) -	3.33e+02 (6.72e+01) -
WCCI20-MaTSO3-T19				( ,	( ,	
	1.39e+02 (2.33e+01)	3.65e+02 (6.96e+01) -	3.09e+02 (4.96e+01) -	3.31e+02 (4.88e+01) -	4.09e+02 (1.31e+01) -	3.25e+02 (4.17e+01) -
WCCI20-MaTSO3-T21	1.41e+02 (3.22e+01)	2.84e+02 (5.15e+01) -	3.12e+02 (5.60e+01) -	3.23e+02 (5.26e+01) -	3.12e+02 (3.97e+01) -	3.27e+02 (5.50e+01) -
WCCI20-MaTSO3-T22	1.60e+02 (3.84e+01)	3.14e+02 (5.66e+01) -	3.10e+02 (6.46e+01) -	3.47e+02 (6.46e+01) -	4.08e+02 (1.31e+01) -	3.16e+02 (4.67e+01) -
WCCI20-MaTSO3-T23	1.56e+02 (4.08e+01)	2.90e+02 (6.85e+01) -	2.82e+02 (5.78e+01) -	3.34e+02 (6.49e+01) -	3.30e+02 (7.69e+01) -	3.02e+02 (4.91e+01) -
WCCI20-MaTSO3-T24	1.56e+02 (4.52e+01)	3.10e+02 (4.96e+01) -	2.99e+02 (6.40e+01) -	3.29e+02 (6.65e+01) -	4.06e+02 (1.79e+01) -	3.32e+02 (6.89e+01) -
WCCI20-MaTSO3-T25	1.42e+02 (2.92e+01)	2.77e+02 (4.02e+01) -	2.98e+02 (4.21e+01) -	3.51e+02 (5.22e+01) -	3.23e+02 (6.25e+01) -	3.23e+02 (5.30e+01) -
WCCI20-MaTSO3-T26	1.69e+02 (3.45e+01)	3.17e+02 (8.44e+01) -	2.79e+02 (5.24e+01) -	3.35e+02 (6.41e+01) -	4.14e+02 (1.30e+01) -	3.16e+02 (7.79e+01) -
WCCI20-MaTSO3-T27	1.55e+02 (3.41e+01)	3.11e+02 (6.82e+01) -	3.15e+02 (7.13e+01) -	3.56e+02 (5.61e+01) -	3.12e+02 (5.70e+01) -	3.00e+02 (5.25e+01) -
WCCI20-MaTSO3-T28	1.69e+02 (4.14e+01)	3.32e+02 (4.66e+01) -	3.07e+02 (6.78e+01) -	3.51e+02 (5.51e+01) -	4.06e+02 (1.81e+01) -	3.33e+02 (6.09e+01) -
WCCI20-MaTSO3-T29	1.60e+02 (3.22e+01)	3.14e+02 (5.03e+01) -	2.90e+02 (4.50e+01) -	3.12e+02 (6.66e+01) -	3.23e+02 (5.33e+01) -	3.21e+02 (5.16e+01) -
WCCI20-MaTSO3-T30	1.53e+02 (3.37e+01)	2.86e+02 (4.90e+01) -	2.99e+02 (5.60e+01) -	3.43e+02 (5.17e+01) -	4.08e+02 (1.43e+01) -	3.04e+02 (5.65e+01) -
WCCI20-MaTSO3-T31	1.40e+02 (2.33e+01)	3.10e+02 (4.19e+01) -	2.71e+02 (5.24e+01) -	3.23e+02 (6.26e+01) -	3.28e+02 (5.61e+01) -	3.27e+02 (6.68e+01) -
WCCI20-MaTSO3-T32	1.42e+02 (3.16e+01)	3.38e+02 (4.97e+01) -	2.80e+02 (4.22e+01) -	3.31e+02 (5.09e+01) -	4.06e+02 (1.58e+01) -	3.43e+02 (5.57e+01) -
WCCI20-MaTSO3-T33	1.57e+02 (2.87e+01)	3.11e+02 (3.87e+01) -	2.80e+02 (5.59e+01) -	3.49e+02 (6.31e+01) -	3.06e+02 (6.42e+01) -	3.20e+02 (8.09e+01) -
WCCI20-MaTSO3-T34	1.38e+02 (3.46e+01)	3.32e+02 (7.20e+01) -	2.79e+02 (3.30e+01) -	3.27e+02 (5.07e+01) -	4.07e+02 (1.98e+01) -	3.27e+02 (5.18e+01) -
WCCI20-MaTSO3-T35	1.57e+02 (3.52e+01)	3.21e+02 (4.46e+01) -	2.93e+02 (5.10e+01) -	3.41e+02 (6.13e+01) -	3.27e+02 (6.43e+01) -	2.97e+02 (6.54e+01) -
WCCI20-MaTSO3-T36	1.51e+02 (3.25e+01)	3.23e+02 (6.40e+01) -	2.78e+02 (5.84e+01) -	3.66e+02 (8.59e+01) -	4.05e+02 (1.32e+01) -	3.45e+02 (5.23e+01) -
WCCI20-MaTSO3-T37	1.50e+02 (4.63e+01)	3.27e+02 (5.36e+01) -	2.99e+02 (6.86e+01) -	3.53e+02 (6.63e+01) -	3.27e+02 (7.12e+01) -	3.45e+02 (4.31e+01) -
WCCI20-MaTSO3-T38	1.56e+02 (4.17e+01)	3.04e+02 (5.40e+01) -	2.95e+02 (5.44e+01) -	3.25e+02 (6.13e+01) -	4.09e+02 (1.76e+01) -	3.42e+02 (8.01e+01) -
WCCI20-MaTSO3-T39	1.54e+02 (3.99e+01)	2.57e+02 (4.85e+01) -	2.72e+02 (5.64e+01) -	3.47e+02 (7.46e+01) -	3.29e+02 (6.94e+01) -	3.38e+02 (7.52e+01) -
WCCI20-MaTSO3-T40	1.58e+02 (4.03e+01)	3.34e+02 (5.89e+01) -	3.03e+02 (5.24e+01) -	3.36e+02 (4.00e+01) -	4.13e+02 (2.52e+01) -	3.37e+02 (6.72e+01) -
WCCI20-MaTSO3-T41	1.61e+02 (3.61e+01)	3.24e+02 (5.85e+01) -	3.05e+02 (5.87e+01) -	3.42e+02 (6.19e+01) -	3.24e+02 (5.39e+01) -	3.13e+02 (6.62e+01) -
WCCI20-MaTSO3-T42	1.48e+02 (3.86e+01)	2.89e+02 (4.16e+01) -	3.03e+02 (6.46e+01) -	3.25e+02 (5.65e+01) -	4.07e+02 (1.93e+01) -	3.33e+02 (7.39e+01) -
WCCI20-MaTSO3-T43	1.55e+02 (4.09e+01)	3.18e+02 (6.98e+01) -	2.94e+02 (5.59e+01) -	3.53e+02 (3.61e+01) -	3.19e+02 (6.52e+01) -	3.14e+02 (6.17e+01) -
WCCI20-MaTSO3-T44	1.53e+02 (3.28e+01)	3.12e+02 (6.26e+01) -	2.75e+02 (6.25e+01) -	3.20e+02 (6.35e+01) -	4.06e+02 (1.89e+01) -	3.22e+02 (5.94e+01) -
WCCI20-MaTSO3-T45	1.57e+02 (4.25e+01)	2.94e+02 (5.87e+01) -	2.82e+02 (4.91e+01) -	3.28e+02 (5.92e+01) -	3.20e+02 (6.40e+01) -	3.01e+02 (7.22e+01) -
WCCI20-MaTSO3-T46	1.60e+02 (3.38e+01)	3.06e+02 (5.48e+01) -	2.69e+02 (5.02e+01) -	3.05e+02 (4.54e+01) -	4.06e+02 (1.69e+01) -	3.37e+02 (5.36e+01) -
WCCI20-MaTSO3-T47	1.49e+02 (3.36e+01)	2.94e+02 (5.02e+01) -	2.81e+02 (4.48e+01) -	3.52e+02 (4.77e+01) -	2.95e+02 (6.60e+01) -	3.23e+02 (5.81e+01) -
WCCI20-MaTSO3-T48	1.47e+02 (4.12e+01)	3.13e+02 (5.05e+01) -	3.34e+02 (5.51e+01) -	3.53e+02 (4.44e+01) -	4.04e+02 (1.52e+01) -	3.11e+02 (5.82e+01) -
WCCI20-MaTSO3-T49	1.46e+02 (3.12e+01)	2.73e+02 (3.90e+01) -	2.95e+02 (5.14e+01) -	3.35e+02 (5.85e+01) -	3.35e+02 (8.64e+01) -	3.36e+02 (6.33e+01) -
WCCI20-MaTSO3-T50	1.44e+02 (3.78e+01)	2.81e+02 (4.54e+01) -	2.90e+02 (5.78e+01) -	3.37e+02 (7.15e+01) -	4.09e+02 (1.42e+01) -	3.10e+02 (6.54e+01) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0
T/-/-	Dasc	0/30/0	0/30/0	0/30/0	0/30/0	0/30/0

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO4 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO4 IN TEST SUITE 4.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO4-T1	1.99e-02 (8.47e-03)	4.62e+00 (1.43e+00) -	3.30e+00 (7.60e-01) -	2.46e+00 (5.44e-01) -	1.89e+00 (5.79e-01) -	1.87e+00 (4.51e-01) -
WCCI20-MaTSO4-T2	1.68e+02 (7.18e+01)	5.16e+03 (8.89e+03) -	9.41e+03 (1.68e+04) -	8.95e+04 (1.73e+05) -	1.07e+02 (9.10e+01) +	2.85e+04 (8.66e+04) -
WCCI20-MaTSO4-T3	2.29e+00 (4.99e-01)	4.45e+00 (6.97e-01) -	3.03e+00 (4.51e-01) -	3.57e+00 (3.66e-01) -	3.16e+00 (5.65e-01) -	3.29e+00 (5.92e-01) -
WCCI20-MaTSO4-T4	1.97e-02 (8.87e-03)	5.24e+00 (1.49e+00) -	3.40e+00 (8.58e-01) -	8.62e+00 (2.39e+00) -	4.65e-03 (2.07e-03) +	2.00e+00 (5.05e-01) -
WCCI20-MaTSO4-T5	2.24e+02 (1.75e+02)	9.42e+03 (2.18e+04) -	2.62e+04 (1.05e+05) -	2.22e+04 (5.23e+04) -	9.08e+03 (2.13e+04) -	3.75e+04 (9.57e+04) -
WCCI20-MaTSO4-T6	2.20e+00 (4.79e-01)	4.01e+00 (7.69e-01) -	3.08e+00 (3.52e-01) -	3.43e+00 (3.80e-01) -	1.04e+01 (8.32e+00) -	3.28e+00 (5.61e-01) -
WCCI20-MaTSO4-T7	2.26e-02 (1.35e-02)	6.07e+00 (1.28e+00) -	3.00e+00 (6.24e-01) -	9.08e+00 (2.42e+00) -	2.00e+00 (4.91e-01) -	1.85e+00 (5.02e-01) -
WCCI20-MaTSO4-T8	1.92e+02 (8.75e+01)	2.25e+04 (5.28e+04) -	4.04e+03 (7.92e+03) -	8.69e+04 (1.59e+05) -	1.11e+03 (1.52e+03) =	3.81e+04 (7.06e+04) -
WCCI20-MaTSO4-T9	2.20e+00 (6.39e-01)	4.54e+00 (7.38e-01) -	3.27e+00 (4.19e-01) -	3.44e+00 (4.10e-01) -	3.28e+00 (5.12e-01) -	3.28e+00 (3.82e-01) -
WCCI20-MaTSO4-T10	1.87e-02 (1.06e-02)	5.37e+00 (9.00e-01) -	3.37e+00 (9.11e-01) -	9.03e+00 (1.89e+00) -	5.32e-03 (3.69e-03) +	1.91e+00 (6.39e-01) -
WCCI20-MaTSO4-T11	2.14e+02 (1.18e+02)	2.27e+03 (2.69e+03) -	1.66e+04 (2.26e+04) -	2.96e+04 (7.00e+04) -	1.22e+04 (1.78e+04) -	2.47e+04 (3.97e+04) -
WCCI20-MaTSO4-T12	2.27e+00 (4.14e-01)	4.45e+00 (6.00e-01) -	3.30e+00 (5.38e-01) -	3.44e+00 (5.15e-01) -	7.00e+00 (6.29e+00) -	3.54e+00 (5.81e-01) -
WCCI20-MaTSO4-T13	1.92e-02 (1.10e-02)	5.16e+00 (1.13e+00) -	3.12e+00 (7.21e-01) -	8.84e+00 (2.24e+00) -	2.02e+00 (5.59e-01) -	2.00e+00 (6.16e-01) -
WCCI20-MaTSO4-T14	5.56e+02 (3.94e+02)	3.85e+04 (1.63e+05) -	3.63e+03 (4.33e+03) -	1.92e+04 (3.69e+04) -	1.56e+03 (2.94e+03) =	4.38e+04 (1.01e+05) -
WCCI20-MaTSO4-T15	2.25e+00 (4.19e-01)	4.34e+00 (6.80e-01) -	3.33e+00 (5.50e-01) -	3.44e+00 (4.27e-01) -	3.22e+00 (5.39e-01) -	3.32e+00 (7.37e-01) -
WCCI20-MaTSO4-T16	2.40e-02 (9.25e-03)	5.76e+00 (1.71e+00) -	3.47e+00 (1.01e+00) -	9.31e+00 (2.39e+00) -	4.54e-03 (2.01e-03) +	1.77e+00 (4.26e-01) -
WCCI20-MaTSO4-T17	4.39e+02 (3.38e+02)	5.21e+03 (8.77e+03) -	2.21e+04 (4.76e+04) -	2.88e+04 (7.51e+04) -	3.00e+04 (6.32e+04) -	2.76e+04 (4.82e+04) -
WCCI20-MaTSO4-T18	2.05e+00 (5.96e-01)	4.45e+00 (6.76e-01) -	3.30e+00 (4.60e-01) -	3.74e+00 (4.13e-01) -	1.07e+01 (7.84e+00) -	3.44e+00 (6.76e-01) -
WCCI20-MaTSO4-T19	2.26e-02 (1.04e-02)	5.27e+00 (1.80e+00) -	3.43e+00 (9.12e-01) -	9.12e+00 (1.75e+00) -	1.95e+00 (5.77e-01) -	1.97e+00 (4.95e-01) -
WCCI20-MaTSO4-T20	2.18e+02 (1.81e+02)	7.09e+03 (1.50e+04) -	2.11e+04 (5.15e+04) -	9.49e+04 (2.42e+05) -	4.28e+02 (7.41e+02) =	9.19e+03 (1.56e+04) -
WCCI20-MaTSO4-T21	2.15e+00 (3.37e-01)	4.45e+00 (7.49e-01) -	3.29e+00 (4.18e-01) -	3.44e+00 (4.17e-01) -	4.05e+00 (3.76e+00) -	3.31e+00 (5.15e-01) -
WCCI20-MaTSO4-T22	1.89e-02 (1.04e-02)	5.50e+00 (1.40e+00) -	3.31e+00 (7.02e-01) -	9.22e+00 (2.08e+00) -	5.48e-03 (2.25e-03) +	1.77e+00 (4.23e-01) -
WCCI20-MaTSO4-T23	5.91e+02 (4.56e+02)	4.00e+03 (9.31e+03) -	1.22e+04 (2.58e+04) -	4.32e+04 (1.14e+05) -	1.36e+04 (4.64e+04) -	3.52e+03 (3.69e+03) -
WCCI20-MaTSO4-T24	2.23e+00 (5.65e-01)	4.33e+00 (6.57e-01) -	3.50e+00 (4.56e-01) -	3.61e+00 (4.96e-01) -	9.38e+00 (8.97e+00) -	3.09e+00 (4.21e-01) -
WCCI20-MaTSO4-T25	2.41e-02 (1.24e-02)	5.54e+00 (1.37e+00) -	3.16e+00 (8.73e-01) -	1.03e+01 (3.56e+00) -	1.89e+00 (5.33e-01) -	2.11e+00 (7.53e-01) -
WCCI20-MaTSO4-T26	2.50e+02 (1.38e+02)	8.88e+03 (1.81e+04) -	4.25e+03 (7.90e+03) -	3.52e+04 (5.60e+04) -	6.74e+02 (1.54e+03) =	2.37e+04 (4.19e+04) -
WCCI20-MaTSO4-T27	2.06e+00 (5.16e-01)	4.39e+00 (5.63e-01) -	3.46e+00 (4.36e-01) -	3.40e+00 (4.25e-01) -	3.27e+00 (5.59e-01) -	3.26e+00 (5.52e-01) -
WCCI20-MaTSO4-T28	1.44e-02 (5.06e-03)	5.08e+00 (1.24e+00) -	2.90e+00 (9.79e-01) -	8.91e+00 (2.59e+00) -	4.99e-03 (2.22e-03) +	1.78e+00 (3.59e-01) -
WCCI20-MaTSO4-T29	3.99e+02 (2.00e+02)	1.96e+03 (1.90e+03) -	1.40e+04 (3.56e+04) -	1.07e+04 (1.91e+04) -	7.35e+03 (1.96e+04) -	1.54e+04 (4.05e+04) -
WCCI20-MaTSO4-T30	2.34e+00 (5.41e-01)	4.20e+00 (6.23e-01) -	3.23e+00 (4.61e-01) -	3.62e+00 (5.92e-01) -	1.20e+01 (8.71e+00) -	3.32e+00 (5.02e-01) -
WCCI20-MaTSO4-T31	2.01e-02 (8.53e-03)	6.26e+00 (1.83e+00) -	3.17e+00 (8.82e-01) -	8.52e+00 (2.08e+00) -	2.17e+00 (6.56e-01) -	1.87e+00 (7.82e-01) -
WCCI20-MaTSO4-T32	8.12e+02 (6.48e+02)	2.22e+03 (2.03e+03) -	2.73e+04 (1.05e+05) -	1.06e+04 (2.38e+04) -	9.51e+02 (1.87e+03) =	1.29e+04 (2.75e+04) -
WCCI20-MaTSO4-T33	2.31e+00 (3.55e-01)	4.39e+00 (4.79e-01) -	3.08e+00 (4.85e-01) -	3.78e+00 (4.29e-01) -	3.33e+00 (3.51e-01) -	3.25e+00 (4.61e-01) -
WCCI20-MaTSO4-T34	1.77e-02 (8.90e-03)	5.27e+00 (1.22e+00) -	3.54e+00 (8.17e-01) -	8.77e+00 (2.33e+00) -	3.95e-03 (1.41e-03) +	2.10e+00 (5.37e-01) -
WCCI20-MaTSO4-T35	1.58e+03 (9.34e+02)	2.55e+03 (1.87e+03) =	1.28e+04 (3.23e+04) =	1.78e+04 (5.71e+04) -	3.93e+03 (5.41e+03) =	6.85e+03 (9.94e+03) =
WCCI20-MaTSO4-T36	2.20e+00 (3.69e-01)	4.28e+00 (6.71e-01) -	3.21e+00 (6.18e-01) -	3.63e+00 (4.03e-01) -	9.66e+00 (7.23e+00) -	3.46e+00 (5.58e-01) -
WCCI20-MaTSO4-T37	2.57e-02 (1.30e-02)	5.30e+00 (1.48e+00) -	3.39e+00 (8.65e-01) -	9.13e+00 (2.97e+00) -	1.92e+00 (6.49e-01) -	2.06e+00 (6.04e-01) -
WCCI20-MaTSO4-T38	9.50e+02 (6.78e+02)	2.36e+04 (9.34e+04) -	3.41e+03 (3.21e+03) -	2.91e+04 (6.36e+04) -	1.10e+03 (1.48e+03) =	3.68e+03 (4.32e+03) -
WCCI20-MaTSO4-T39	2.15e+00 (3.43e-01)	4.34e+00 (7.03e-01) -	3.18e+00 (4.37e-01) -	3.60e+00 (3.87e-01) -	3.28e+00 (6.10e-01) -	3.28e+00 (4.47e-01) -
WCCI20-MaTSO4-T40	2.00e-02 (1.21e-02)	6.09e+00 (1.55e+00) -	2.94e+00 (7.56e-01) -	9.35e+00 (2.46e+00) -	5.04e-03 (1.81e-03) +	1.86e+00 (5.97e-01) -
WCCI20-MaTSO4-T41	2.09e+02 (9.00e+01)	6.73e+03 (1.48e+04) -	2.38e+04 (7.09e+04) -	8.81e+04 (1.95e+05) -	1.53e+04 (5.88e+04) -	2.23e+04 (5.18e+04) -
WCCI20-MaTSO4-T42	2.20e+00 (4.75e-01)	4.33e+00 (9.89e-01) -	3.30e+00 (5.76e-01) -	3.60e+00 (5.80e-01) -	9.43e+00 (7.08e+00) -	3.30e+00 (4.91e-01) -
WCCI20-MaTSO4-T43	3.34e-02 (1.78e-02)	5.82e+00 (1.37e+00) -	3.36e+00 (7.51e-01) -	9.03e+00 (1.96e+00) -	1.96e+00 (4.48e-01) -	1.88e+00 (5.58e-01) -
WCCI20-MaTSO4-T44	5.44e+02 (4.92e+02)	3.45e+03 (6.07e+03) -	3.79e+03 (5.85e+03) -	3.25e+04 (6.68e+04) -	1.45e+03 (2.13e+03) =	3.10e+04 (8.06e+04) -
WCCI20-MaTSO4-T45	2.27e+00 (3.73e-01)	4.42e+00 (6.64e-01) -	3.51e+00 (4.54e-01) -	3.53e+00 (6.02e-01) -	4.04e+00 (4.05e+00) -	3.45e+00 (5.64e-01) -
WCCI20-MaTSO4-T46	2.35e-02 (1.41e-02)	5.22e+00 (1.01e+00) -	2.99e+00 (9.83e-01) -	9.66e+00 (3.23e+00) -	4.58e-03 (1.55e-03) +	1.75e+00 (4.71e-01) -
WCCI20-MaTSO4-T47	1.53e+02 (7.40e+01)	6.57e+03 (1.51e+04) -	9.25e+03 (1.47e+04) -	1.03e+05 (2.24e+05) -	5.03e+04 (1.31e+05) -	1.58e+04 (2.90e+04) -
WCCI20-MaTSO4-T48	2.39e+00 (5.05e-01)	4.33e+00 (6.92e-01) -	3.31e+00 (5.74e-01) -	3.53e+00 (4.88e-01) -	9.93e+00 (8.98e+00) =	3.51e+00 (5.13e-01) -
WCCI20-MaTSO4-T49	1.55e-02 (4.93e-03)	4.98e+00 (1.09e+00) -	3.48e+00 (8.62e-01) -	8.85e+00 (1.88e+00) -	2.13e+00 (6.34e-01) -	2.03e+00 (4.71e-01) -
WCCI20-MaTSO4-T50	7.86e+02 (5.95e+02)	1.73e+03 (1.14e+03) -	3.50e+03 (7.47e+03) -	4.97e+04 (1.69e+05) -	1.18e+03 (2.02e+03) -	2.31e+04 (6.03e+04) -
+/-/=	Base	0/49/1	0/49/1	0/50/0	9/32/9	0/49/1

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO5 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO5 IN TEST SUITE 4.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO5-T1	2.13e+02 (4.50e+01)	5.69e+02 (1.25e+02) -	3.42e+02 (7.08e+01) -	3.21e+02 (5.17e+01) -	3.08e+02 (4.61e+01) -	3.26e+02 (5.53e+01) -
WCCI20-MaTSO5-T2	3.75e-02 (1.26e-02)	3.03e-01 (5.67e-02) -	2.17e-01 (4.61e-02) -	3.62e-01 (5.31e-02) -	1.75e-01 (3.57e-02) -	1.66e-01 (3.68e-02) -
WCCI20-MaTSO5-T3	1.71e+01 (2.72e+00)	4.33e+01 (4.91e+00) -	3.93e+01 (3.74e+00) -	4.04e+01 (3.77e+00) -	3.98e+01 (4.23e+00) -	3.96e+01 (4.22e+00) -
WCCI20-MaTSO5-T4	2.49e+02 (7.64e+01)	5.08e+02 (1.13e+02) -	3.17e+02 (7.15e+01) -	3.37e+02 (6.28e+01) -	3.51e+02 (7.06e+01) -	3.11e+02 (6.74e+01) -
WCCI20-MaTSO5-T5	3.37e-02 (1.40e-02)	2.94e-01 (6.63e-02) -	2.27e-01 (4.79e-02) -	3.72e-01 (6.44e-02) -	1.74e-01 (3.99e-02) -	1.62e-01 (3.34e-02) -
WCCI20-MaTSO5-T6	1.70e+01 (2.34e+00)	4.08e+01 (5.44e+00) -	3.77e+01 (3.19e+00) -	3.64e+01 (4.14e+00) -	3.77e+01 (4.04e+00) -	3.88e+01 (3.22e+00) -
WCCI20-MaTSO5-T7	2.00e+02 (4.70e+01)	5.18e+02 (1.18e+02) -	3.40e+02 (6.72e+01) -	3.45e+02 (7.36e+01) -	3.21e+02 (7.04e+01) -	3.26e+02 (6.81e+01) -
WCCI20-MaTSO5-T8	3.70e-02 (1.10e-02)	3.21e-01 (6.47e-02) -	2.17e-01 (4.89e-02) -	3.71e-01 (7.24e-02) -	1.64e-01 (3.37e-02) -	1.57e-01 (4.41e-02) -
WCCI20-MaTSO5-T9	1.73e+01 (2.94e+00)	4.09e+01 (7.90e+00) -	3.79e+01 (4.31e+00) -	3.88e+01 (5.05e+00) -	4.05e+01 (4.57e+00) -	3.93e+01 (4.31e+00) -
WCCI20-MaTSO5-T10	2.03e+02 (3.54e+01)	5.07e+02 (5.70e+01) -	3.30e+02 (4.84e+01) -	3.39e+02 (6.30e+01) -	2.96e+02 (6.90e+01) -	3.51e+02 (8.33e+01) -
WCCI20-MaTSO5-T11	3.09e-02 (1.04e-02)	3.23e-01 (5.62e-02) -	2.10e-01 (3.85e-02) -	3.65e-01 (5.99e-02) -	1.63e-01 (3.13e-02) -	1.63e-01 (3.76e-02) -
WCCI20-MaTSO5-T12	1.75e+01 (2.97e+00)	4.25e+01 (6.10e+00) -	3.80e+01 (3.82e+00) -	3.85e+01 (3.23e+00) -	3.97e+01 (4.94e+00) -	4.02e+01 (4.11e+00) -
WCCI20-MaTSO5-T13	1.98e+02 (3.88e+01)	5.28e+02 (1.15e+02) -	3.20e+02 (6.73e+01) -	3.48e+02 (6.14e+01) -	3.34e+02 (5.39e+01) -	3.06e+02 (5.72e+01) -
WCCI20-MaTSO5-T14	3.60e-02 (1.25e-02)	2.96e-01 (5.84e-02) -	2.01e-01 (4.86e-02) -	3.43e-01 (6.94e-02) -	1.74e-01 (3.18e-02) -	1.81e-01 (4.01e-02) -
WCCI20-MaTSO5-T15	1.68e+01 (2.77e+00)	4.16e+01 (6.88e+00) -	3.91e+01 (4.27e+00) -	3.85e+01 (4.36e+00) -	3.76e+01 (4.09e+00) -	3.99e+01 (3.43e+00) -
WCCI20-MaTSO5-T16	2.19e+02 (4.15e+01)	5.05e+02 (1.09e+02) -	3.25e+02 (5.60e+01) -	3.42e+02 (5.12e+01) -	3.39e+02 (6.50e+01) -	3.45e+02 (7.63e+01) -
WCCI20-MaTSO5-T17	3.31e-02 (1.04e-02)	3.20e-01 (5.87e-02) -	2.27e-01 (4.00e-02) -	3.65e-01 (7.11e-02) -	1.74e-01 (4.21e-02) -	1.68e-01 (3.57e-02) -
WCCI20-MaTSO5-T18	1.68e+01 (3.15e+00)	4.28e+01 (6.67e+00) -	3.61e+01 (4.16e+00) -	3.73e+01 (4.82e+00) -	3.93e+01 (3.78e+00) -	4.00e+01 (5.68e+00) -
WCCI20-MaTSO5-T19	2.32e+02 (6.16e+01)	5.13e+02 (1.19e+02) -	3.39e+02 (5.71e+01) -	3.31e+02 (5.08e+01) -	3.22e+02 (5.84e+01) -	3.54e+02 (5.96e+01) -
WCCI20-MaTSO5-T20	3.88e-02 (1.43e-02)	2.94e-01 (6.18e-02) -	2.36e-01 (6.00e-02) -	3.51e-01 (7.23e-02) -	1.63e-01 (3.08e-02) -	1.61e-01 (3.81e-02) -
WCCI20-MaTSO5-T21	1.79e+01 (2.70e+00)	3.98e+01 (7.89e+00) -	3.78e+01 (3.19e+00) -	3.90e+01 (3.47e+00) -	3.84e+01 (4.09e+00) -	3.83e+01 (3.74e+00) -
WCCI20-MaTSO5-T22	2.14e+02 (4.83e+01)	4.81e+02 (8.89e+01) -	3.33e+02 (5.43e+01) -	3.57e+02 (4.58e+01) -	3.20e+02 (6.04e+01) -	3.22e+02 (6.61e+01) -
WCCI20-MaTSO5-T23	3.52e-02 (1.59e-02)	2.98e-01 (5.66e-02) -	2.30e-01 (6.09e-02) -	3.59e-01 (5.74e-02) -	1.65e-01 (2.81e-02) -	1.69e-01 (3.18e-02) -
WCCI20-MaTSO5-T24	1.73e+01 (3.08e+00)	4.27e+01 (5.08e+00) -	3.72e+01 (4.65e+00) -	3.82e+01 (4.03e+00) -	3.88e+01 (5.17e+00) -	3.83e+01 (5.20e+00) -
WCCI20-MaTSO5-T25	2.00e+02 (3.62e+01)	5.61e+02 (9.65e+01) -	3.18e+02 (6.40e+01) -	3.58e+02 (8.47e+01) -	3.14e+02 (6.45e+01) -	3.28e+02 (9.15e+01) -
WCCI20-MaTSO5-T26	4.11e-02 (1.22e-02)	3.12e-01 (4.57e-02) -	2.24e-01 (4.06e-02) -	3.68e-01 (5.91e-02) -	1.71e-01 (4.53e-02) -	1.71e-01 (4.46e-02) -
WCCI20-MaTSO5-T27	1.97e+01 (3.42e+00)	4.42e+01 (6.22e+00) -	3.77e+01 (3.74e+00) -	3.75e+01 (3.61e+00) -	3.91e+01 (3.40e+00) -	3.76e+01 (2.90e+00) -
WCCI20-MaTSO5-T28	2.36e+02 (4.97e+01)	5.08e+02 (1.23e+02) -	3.21e+02 (5.42e+01) -	3.45e+02 (6.47e+01) -	3.13e+02 (6.52e+01) -	3.33e+02 (8.29e+01) -
WCCI20-MaTSO5-T29	3.78e-02 (1.57e-02)	3.13e-01 (6.61e-02) -	2.26e-01 (4.08e-02) -	3.65e-01 (6.51e-02) -	1.67e-01 (3.74e-02) -	1.66e-01 (2.90e-02) -
WCCI20-MaTSO5-T30	1.87e+01 (3.54e+00)	4.35e+01 (4.87e+00) -	3.84e+01 (4.40e+00) -	3.85e+01 (4.54e+00) -	3.88e+01 (3.62e+00) -	3.95e+01 (5.87e+00) -
WCCI20-MaTSO5-T31	1.98e+02 (5.51e+01)	5.30e+02 (1.04e+02) -	3.15e+02 (6.05e+01) -	3.41e+02 (5.51e+01) -	3.20e+02 (6.16e+01) -	3.21e+02 (4.73e+01) -
WCCI20-MaTSO5-T32	3.27e-02 (1.15e-02)	2.92e-01 (6.59e-02) -	2.11e-01 (3.99e-02) -	4.00e-01 (7.29e-02) -	1.68e-01 (3.63e-02) -	1.58e-01 (2.67e-02) -
WCCI20-MaTSO5-T33	1.68e+01 (2.21e+00)	4.21e+01 (5.36e+00) -	4.05e+01 (4.05e+00) -	3.88e+01 (3.40e+00) -	3.97e+01 (2.99e+00) -	3.85e+01 (5.57e+00) -
WCCI20-MaTSO5-T34	2.31e+02 (5.39e+01)	4.89e+02 (1.10e+02) -	3.23e+02 (5.55e+01) -	3.49e+02 (5.57e+01) -	3.37e+02 (5.66e+01) -	3.05e+02 (6.10e+01) -
WCCI20-MaTSO5-T35	3.57e-02 (1.48e-02)	3.27e-01 (5.37e-02) -	2.19e-01 (4.49e-02) -	3.60e-01 (5.81e-02) -	1.70e-01 (4.02e-02) -	1.70e-01 (3.29e-02) -
WCCI20-MaTSO5-T36	1.64e+01 (2.68e+00)	4.38e+01 (5.19e+00) -	3.75e+01 (4.10e+00) -	3.87e+01 (4.79e+00) -	3.87e+01 (3.56e+00) -	3.93e+01 (5.16e+00) -
WCCI20-MaTSO5-T37	2.03e+02 (4.62e+01)	5.27e+02 (1.21e+02) -	3.28e+02 (7.54e+01) -	3.37e+02 (4.53e+01) -	3.23e+02 (6.65e+01) -	3.45e+02 (4.90e+01) -
WCCI20-MaTSO5-T38	3.13e-02 (1.31e-02)	2.92e-01 (5.45e-02) -	2.24e-01 (4.14e-02) -	3.95e-01 (5.93e-02) -	1.62e-01 (3.77e-02) -	1.67e-01 (3.08e-02) -
WCCI20-MaTSO5-T39	1.99e+01 (2.31e+00)	4.22e+01 (3.97e+00) -	3.78e+01 (3.70e+00) -	3.69e+01 (2.90e+00) -	3.84e+01 (5.33e+00) -	3.76e+01 (4.18e+00) -
WCCI20-MaTSO5-T40	2.15e+02 (5.00e+01)	5.11e+02 (7.91e+01) -	3.16e+02 (6.25e+01) -	3.53e+02 (6.13e+01) -	3.41e+02 (7.03e+01) -	3.40e+02 (6.34e+01) -
WCCI20-MaTSO5-T41	2.94e-02 (1.08e-02)	3.26e-01 (6.79e-02) -	2.11e-01 (5.33e-02) -	3.41e-01 (5.21e-02) -	1.62e-01 (3.09e-02) -	1.64e-01 (5.56e-02) -
WCCI20-MaTSO5-T42	1.67e+01 (3.07e+00)	4.13e+01 (6.70e+00) -	3.86e+01 (4.94e+00) -	3.70e+01 (3.23e+00) -	3.91e+01 (4.05e+00) -	3.84e+01 (4.72e+00) -
WCCI20-MaTSO5-T43	2.13e+02 (3.72e+01)	5.28e+02 (8.07e+01) -	3.20e+02 (8.82e+01) -	3.41e+02 (5.68e+01) -	3.24e+02 (5.99e+01) -	3.18e+02 (5.20e+01) -
WCCI20-MaTSO5-T44	3.34e-02 (8.47e-03)	3.11e-01 (5.30e-02) -	2.15e-01 (4.22e-02) -	3.81e-01 (6.17e-02) -	1.65e-01 (3.07e-02) -	1.75e-01 (4.15e-02) -
WCCI20-MaTSO5-T45	1.66e+01 (3.08e+00)	4.16e+01 (7.46e+00) -	3.77e+01 (3.75e+00) -	3.86e+01 (4.25e+00) -	3.77e+01 (4.58e+00) -	3.73e+01 (3.85e+00) -
WCCI20-MaTSO5-T46	2.05e+02 (3.37e+01)	5.54e+02 (1.30e+02) -	3.49e+02 (7.74e+01) -	3.31e+02 (5.37e+01) -	3.19e+02 (6.15e+01) -	3.44e+02 (7.18e+01) -
WCCI20-MaTSO5-T47	3.18e-02 (7.99e-03)	3.04e-01 (4.90e-02) -	2.11e-01 (4.40e-02) -	3.80e-01 (7.15e-02) -	1.76e-01 (3.52e-02) -	1.67e-01 (4.57e-02) -
WCCI20-MaTSO5-T48	1.80e+01 (2.71e+00)	4.10e+01 (5.29e+00) -	3.71e+01 (3.64e+00) -	3.73e+01 (5.00e+00) -	4.01e+01 (5.30e+00) -	3.63e+01 (4.59e+00) -
WCCI20-MaTSO5-T49	2.09e+02 (5.17e+01)	4.89e+02 (8.52e+01) -	3.26e+02 (5.60e+01) -	3.56e+02 (8.87e+01) -	3.35e+02 (7.00e+01) -	3.10e+02 (6.31e+01) -
WCCI20-MaTSO5-T50	3.19e-02 (1.63e-02)	3.32e-01 (5.28e-02) -	2.35e-01 (5.41e-02) -	3.98e-01 (7.70e-02) -	1.69e-01 (3.82e-02) -	1.75e-01 (4.15e-02) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO6 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO6 IN TEST SUITE 4.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO6-T1		9.28e+03 (1.98e+04) -	1.07e+04 (3.03e+04) -		2.09e+04 (5.10e+04) -	
WCCI20-MaTSO6-T1	6.31e+02 (5.47e+02)			2.17e+04 (7.55e+04) -		6.81e+03 (1.08e+04) -
WCCI20-MaTSO6-T2	3.28e-02 (1.29e-02) 5.21e+03 (1.05e+03)	3.10e-01 (4.14e-02) - 7.03e+03 (8.64e+02) -	2.28e-01 (3.53e-02) - 6.91e+03 (8.07e+02) -	3.72e-01 (7.70e-02) - 6.74e+03 (1.09e+03) -	1.60e-01 (4.35e-02) - 6.89e+03 (9.27e+02) -	1.61e-01 (3.39e-02) - 6.81e+03 (6.98e+02) -
WCCI20-MaTSO6-T3	2.87e+02 (2.38e+02)	3.04e+04 (7.96e+04) -				
			4.93e+04 (8.15e+04) -	4.00e+04 (8.96e+04) -	3.23e+04 (9.25e+04) -	2.98e+03 (4.23e+03) -
WCCI20-MaTSO6-T5	3.26e-02 (1.77e-02)	3.11e-01 (5.58e-02) -	2.28e-01 (6.79e-02) -	3.93e-01 (6.12e-02) -	1.77e-01 (2.69e-02) -	1.63e-01 (4.46e-02) -
WCCI20-MaTSO6-T6	5.32e+03 (1.53e+03)	7.32e+03 (8.46e+02) -	7.23e+03 (6.83e+02) -	6.90e+03 (8.10e+02) -	6.49e+03 (7.37e+02) -	6.92e+03 (1.28e+03) -
WCCI20-MaTSO6-T7	2.85e+02 (2.13e+02)	3.42e+04 (9.11e+04) -	4.47e+04 (1.21e+05) -	2.12e+04 (3.92e+04) -	3.31e+04 (1.20e+05) -	1.74e+04 (3.46e+04) -
WCCI20-MaTSO6-T8 WCCI20-MaTSO6-T9	3.30e-02 (8.17e-03)	3.03e-01 (6.44e-02) -	2.25e-01 (4.46e-02) -	3.79e-01 (5.69e-02) -	1.60e-01 (3.77e-02) -	1.74e-01 (4.33e-02) -
	5.45e+03 (1.14e+03)	7.28e+03 (1.02e+03) -	7.04e+03 (8.52e+02) -	7.05e+03 (8.13e+02) -	6.90e+03 (8.37e+02) -	7.04e+03 (7.63e+02) -
WCCI20-MaTSO6-T10	4.90e+02 (5.24e+02)	2.53e+04 (6.90e+04) -	6.17e+03 (1.25e+04) -	5.05e+04 (7.06e+04) -	4.81e+03 (7.96e+03) -	6.21e+03 (1.54e+04) -
WCCI20-MaTSO6-T11	3.13e-02 (8.56e-03)	3.31e-01 (5.90e-02) -	2.07e-01 (4.62e-02) -	3.76e-01 (7.08e-02) -	1.69e-01 (3.72e-02) -	1.65e-01 (3.87e-02) -
WCCI20-MaTSO6-T12	5.44e+03 (9.25e+02)	7.04e+03 (8.14e+02) -	7.23e+03 (9.49e+02) -	6.93e+03 (1.09e+03) -	7.12e+03 (8.86e+02) -	6.52e+03 (6.95e+02) -
WCCI20-MaTSO6-T13	2.10e+02 (1.22e+02)	3.27e+04 (4.99e+04) -	8.80e+03 (1.56e+04) -	1.75e+04 (2.65e+04) -	7.83e+04 (1.89e+05) -	4.01e+04 (8.79e+04) -
WCCI20-MaTSO6-T14	3.12e-02 (1.18e-02)	3.24e-01 (6.08e-02) -	2.26e-01 (4.62e-02) -	3.71e-01 (6.64e-02) -	1.76e-01 (4.49e-02) -	1.80e-01 (3.77e-02) -
WCCI20-MaTSO6-T15	5.17e+03 (1.46e+03)	6.98e+03 (1.11e+03) -	6.92e+03 (9.51e+02) -	7.10e+03 (7.92e+02) -	7.08e+03 (8.55e+02) -	6.72e+03 (7.05e+02) -
WCCI20-MaTSO6-T16	3.04e+02 (3.05e+02)	6.28e+03 (7.65e+03) -	5.36e+03 (7.34e+03) -	2.09e+04 (4.55e+04) -	2.53e+04 (6.17e+04) -	2.05e+04 (5.28e+04) -
WCCI20-MaTSO6-T17	3.37e-02 (1.32e-02)	3.28e-01 (4.50e-02) -	2.31e-01 (4.47e-02) -	3.61e-01 (5.99e-02) -	1.74e-01 (3.13e-02) -	1.66e-01 (3.78e-02) -
WCCI20-MaTSO6-T18	5.42e+03 (1.21e+03)	7.29e+03 (1.09e+03) -	7.10e+03 (9.56e+02) -	6.76e+03 (8.21e+02) -	6.94e+03 (9.55e+02) -	6.66e+03 (7.42e+02) -
WCCI20-MaTSO6-T19	2.49e+02 (1.24e+02)	8.39e+03 (1.01e+04) -	4.63e+04 (9.95e+04) -	1.29e+05 (2.28e+05) -	3.51e+04 (5.47e+04) -	2.60e+04 (6.70e+04) -
WCCI20-MaTSO6-T20	3.36e-02 (1.41e-02)	2.97e-01 (3.38e-02) -	2.18e-01 (5.43e-02) -	3.85e-01 (8.94e-02) -	1.74e-01 (3.26e-02) -	1.81e-01 (3.88e-02) -
WCCI20-MaTSO6-T21	5.43e+03 (1.33e+03)	7.54e+03 (1.04e+03) -	6.49e+03 (8.64e+02) -	6.92e+03 (9.86e+02) -	7.05e+03 (9.17e+02) -	7.25e+03 (8.75e+02) -
WCCI20-MaTSO6-T22	1.03e+03 (7.76e+02)	1.15e+04 (1.98e+04) -	4.43e+03 (6.09e+03) -	6.96e+03 (1.14e+04) -	2.41e+04 (4.41e+04) -	6.93e+03 (1.20e+04) -
WCCI20-MaTSO6-T23	3.11e-02 (1.25e-02)	3.14e-01 (5.82e-02) -	2.09e-01 (4.72e-02) -	3.57e-01 (6.03e-02) -	1.63e-01 (4.21e-02) -	1.71e-01 (3.73e-02) -
WCCI20-MaTSO6-T24	5.94e+03 (1.18e+03)	7.41e+03 (9.61e+02) -	6.60e+03 (6.90e+02) =	6.85e+03 (8.11e+02) -	6.98e+03 (9.95e+02) -	6.79e+03 (7.96e+02) -
WCCI20-MaTSO6-T25	3.75e+02 (3.13e+02)	1.05e+04 (2.63e+04) -	5.46e+03 (1.29e+04) -	4.92e+04 (8.77e+04) -	9.60e+03 (1.48e+04) -	7.66e+03 (1.51e+04) -
WCCI20-MaTSO6-T26	3.27e-02 (1.02e-02)	2.94e-01 (4.88e-02) -	1.99e-01 (3.52e-02) -	3.62e-01 (6.23e-02) -	1.55e-01 (4.16e-02) -	1.86e-01 (3.94e-02) -
WCCI20-MaTSO6-T27	4.94e+03 (1.04e+03)	6.96e+03 (1.03e+03) -	6.66e+03 (1.12e+03) -	6.48e+03 (7.87e+02) -	6.83e+03 (7.73e+02) -	6.73e+03 (1.01e+03) -
WCCI20-MaTSO6-T28	2.48e+02 (9.18e+01)	2.62e+04 (4.27e+04) -	4.88e+03 (9.44e+03) -	1.91e+04 (3.74e+04) -	2.39e+04 (4.45e+04) -	2.51e+04 (8.15e+04) -
WCCI20-MaTSO6-T29	3.17e-02 (1.07e-02)	3.21e-01 (7.19e-02) -	2.12e-01 (4.78e-02) -	3.74e-01 (6.41e-02) -	1.75e-01 (3.92e-02) -	1.86e-01 (2.97e-02) -
WCCI20-MaTSO6-T30	5.17e+03 (8.09e+02)	7.32e+03 (1.01e+03) -	6.83e+03 (8.90e+02) -	6.76e+03 (5.73e+02) -	6.68e+03 (7.62e+02) -	7.01e+03 (1.12e+03) -
WCCI20-MaTSO6-T31	5.09e+02 (3.91e+02)	7.26e+03 (2.13e+04) -	2.27e+04 (6.78e+04) -	1.59e+04 (3.02e+04) -	1.18e+04 (2.05e+04) -	1.62e+04 (2.78e+04) -
WCCI20-MaTSO6-T32	3.04e-02 (1.06e-02)	3.41e-01 (5.47e-02) -	2.26e-01 (4.89e-02) -	3.47e-01 (5.65e-02) -	1.55e-01 (2.82e-02) -	1.64e-01 (3.75e-02) -
WCCI20-MaTSO6-T33	5.35e+03 (1.03e+03)	7.11e+03 (5.71e+02) -	6.95e+03 (8.96e+02) -	6.84e+03 (8.09e+02) -	6.81e+03 (9.59e+02) -	6.72e+03 (1.03e+03) -
WCCI20-MaTSO6-T34	1.72e+02 (1.27e+02)	3.39e+04 (6.02e+04) -	1.05e+04 (2.33e+04) -	2.50e+04 (5.39e+04) -	1.17e+04 (1.77e+04) -	1.25e+04 (1.78e+04) -
WCCI20-MaTSO6-T35	3.20e-02 (1.03e-02)	2.96e-01 (7.44e-02) -	2.21e-01 (4.78e-02) -	3.85e-01 (6.67e-02) -	1.63e-01 (3.51e-02) -	1.63e-01 (3.76e-02) -
WCCI20-MaTSO6-T36	5.68e+03 (8.81e+02)	7.59e+03 (1.05e+03) -	7.01e+03 (8.75e+02) -	6.49e+03 (9.23e+02) -	6.89e+03 (1.03e+03) -	6.75e+03 (7.83e+02) -
WCCI20-MaTSO6-T37	2.79e+02 (1.04e+02)	6.69e+03 (1.53e+04) -	2.36e+04 (4.16e+04) -	3.10e+04 (7.40e+04) -	7.56e+03 (1.59e+04) -	2.24e+04 (4.15e+04) -
WCCI20-MaTSO6-T38	3.23e-02 (1.06e-02)	3.04e-01 (5.53e-02) -	2.22e-01 (3.32e-02) -	3.47e-01 (8.32e-02) -	1.56e-01 (4.16e-02) -	1.62e-01 (3.29e-02) -
WCCI20-MaTSO6-T39	5.18e+03 (8.99e+02)	7.19e+03 (1.07e+03) -	6.88e+03 (7.89e+02) -	6.86e+03 (8.44e+02) -	6.94e+03 (7.15e+02) -	6.89e+03 (8.38e+02) -
WCCI20-MaTSO6-T40	1.09e+03 (7.22e+02)	2.87e+04 (7.53e+04) -	5.35e+03 (1.08e+04) =	1.18e+04 (2.56e+04) -	6.91e+03 (1.90e+04) =	7.91e+03 (1.22e+04) -
WCCI20-MaTSO6-T41	2.70e-02 (1.07e-02)	3.09e-01 (6.55e-02) -	2.21e-01 (3.34e-02) -	3.77e-01 (8.30e-02) -	1.67e-01 (3.45e-02) -	1.74e-01 (2.66e-02) -
WCCI20-MaTSO6-T42	5.46e+03 (1.37e+03)	7.08e+03 (8.56e+02) -	6.94e+03 (8.54e+02) -	7.18e+03 (8.34e+02) -	6.99e+03 (8.33e+02) -	6.84e+03 (9.83e+02) -
WCCI20-MaTSO6-T43	7.89e+02 (7.23e+02)	3.81e+03 (6.19e+03) -	2.56e+04 (7.02e+04) -	2.23e+04 (4.69e+04) -	2.73e+03 (3.44e+03) -	1.12e+04 (2.60e+04) -
WCCI20-MaTSO6-T44	2.29e-02 (8.72e-03)	3.19e-01 (3.88e-02) -	2.03e-01 (4.36e-02) -	3.35e-01 (4.26e-02) -	1.59e-01 (3.50e-02) -	1.71e-01 (4.23e-02) -
WCCI20-MaTSO6-T45	5.58e+03 (7.04e+02)	7.22e+03 (9.49e+02) -	6.51e+03 (1.11e+03) -	6.89e+03 (1.23e+03) -	7.23e+03 (9.07e+02) -	6.67e+03 (8.74e+02) -
WCCI20-MaTSO6-T46	1.31e+03 (7.47e+02)	3.96e+03 (3.29e+03) -	4.56e+03 (7.20e+03) =	1.32e+04 (2.76e+04) -	6.60e+03 (9.08e+03) -	1.02e+04 (2.26e+04) =
WCCI20-MaTSO6-T47	3.29e-02 (1.13e-02)	3.33e-01 (6.04e-02) -	2.24e-01 (5.42e-02) -	3.64e-01 (8.34e-02) -	1.73e-01 (4.12e-02) -	1.66e-01 (3.92e-02) -
WCCI20-MaTSO6-T48	5.48e+03 (1.23e+03)	7.50e+03 (1.04e+03) -	7.03e+03 (7.92e+02) -	6.85e+03 (7.29e+02) -	6.79e+03 (1.07e+03) -	7.29e+03 (8.15e+02) -
WCCI20-MaTSO6-T49	4.03e+02 (2.96e+02)	1.16e+04 (1.96e+04) -	1.04e+04 (2.77e+04) -	1.63e+04 (3.50e+04) -	1.18e+04 (1.68e+04) -	1.05e+04 (2.25e+04) -
WCCI20-MaTSO6-T50	3.19e-02 (1.52e-02)	3.07e-01 (6.22e-02) -	2.42e-01 (4.42e-02) -	3.66e-01 (4.95e-02) -	1.69e-01 (2.84e-02) -	1.70e-01 (3.64e-02) -
+/-/=	Base	0/50/0	0/47/3	0/50/0	0/49/1	0/49/1
	l Base	0,50,0	1 0, 1,75	1 0,50,0	07.771	0, 1,7,1

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO7 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO7 IN TEST SUITE 4.

		**				
Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO7-T1	2.31e+00 (3.58e-01)	4.35e+00 (6.03e-01) -	3.26e+00 (6.09e-01) -	3.45e+00 (6.26e-01) -	3.27e+00 (4.37e-01) -	3.15e+00 (6.12e-01) -
WCCI20-MaTSO7-T2	2.14e+02 (4.58e+01)	5.17e+02 (1.29e+02) -	3.13e+02 (5.61e+01) -	3.41e+02 (5.45e+01) -	3.26e+02 (4.91e+01) -	3.15e+02 (7.90e+01) -
WCCI20-MaTSO7-T3	1.76e+01 (2.48e+00)	4.40e+01 (4.74e+00) -	3.81e+01 (3.92e+00) -	3.89e+01 (3.61e+00) -	3.77e+01 (3.14e+00) -	3.89e+01 (3.41e+00) -
WCCI20-MaTSO7-T4	2.23e+00 (4.93e-01)	4.63e+00 (7.44e-01) -	3.34e+00 (5.03e-01) -	3.41e+00 (5.22e-01) -	3.39e+00 (5.22e-01) -	4.31e+00 (3.70e+00) -
WCCI20-MaTSO7-T5	2.25e+02 (4.35e+01)	5.20e+02 (8.49e+01) -	3.31e+02 (5.70e+01) -	3.54e+02 (4.92e+01) -	3.13e+02 (6.13e+01) -	3.22e+02 (4.16e+01) -
WCCI20-MaTSO7-T6	1.75e+01 (3.13e+00)	4.45e+01 (4.07e+00) -	4.05e+01 (3.48e+00) -	3.99e+01 (4.41e+00) -	3.75e+01 (3.69e+00) -	3.83e+01 (3.32e+00) -
WCCI20-MaTSO7-T7	2.43e+00 (3.11e-01)	4.40e+00 (8.53e-01) -	3.36e+00 (3.83e-01) -	3.53e+00 (4.10e-01) -	3.68e+00 (1.91e+00) -	3.26e+00 (5.34e-01) -
WCCI20-MaTSO7-T8	2.08e+02 (3.74e+01)	5.20e+02 (1.29e+02) -	3.28e+02 (5.20e+01) -	3.43e+02 (6.08e+01) -	3.14e+02 (6.21e+01) -	3.12e+02 (6.82e+01) -
WCCI20-MaTSO7-T9	1.75e+01 (3.53e+00)	4.35e+01 (5.08e+00) -	3.74e+01 (3.90e+00) -	3.94e+01 (3.59e+00) -	3.62e+01 (4.17e+00) -	3.97e+01 (2.92e+00) -
WCCI20-MaTSO7-T10	2.61e+00 (5.94e-01)	4.12e+00 (8.84e-01) -	3.36e+00 (4.92e-01) -	3.45e+00 (3.24e-01) -	4.11e+00 (3.78e+00) -	3.19e+00 (4.76e-01) -
WCCI20-MaTSO7-T11	2.06e+02 (5.16e+01)	4.92e+02 (1.20e+02) -	3.22e+02 (5.25e+01) -	3.28e+02 (4.88e+01) -	3.03e+02 (5.67e+01) -	3.12e+02 (6.12e+01) -
WCCI20-MaTSO7-T12	1.70e+01 (2.94e+00)	4.32e+01 (5.03e+00) -	3.89e+01 (3.11e+00) -	3.85e+01 (4.03e+00) -	3.75e+01 (4.19e+00) -	3.72e+01 (4.05e+00) -
WCCI20-MaTSO7-T13	2.31e+00 (5.46e-01)	4.47e+00 (6.21e-01) -	3.42e+00 (4.77e-01) -	3.59e+00 (5.70e-01) -	3.47e+00 (5.81e-01) -	3.44e+00 (4.82e-01) -
WCCI20-MaTSO7-T14	2.06e+02 (4.29e+01)	5.38e+02 (8.63e+01) -	3.22e+02 (7.03e+01) -	3.60e+02 (6.34e+01) -	3.30e+02 (5.04e+01) -	3.48e+02 (5.41e+01) -
WCCI20-MaTSO7-T15	1.93e+01 (2.96e+00)	4.41e+01 (3.97e+00) -	3.94e+01 (3.53e+00) -	3.83e+01 (4.04e+00) -	3.82e+01 (4.85e+00) -	3.86e+01 (4.92e+00) -
WCCI20-MaTSO7-T16	2.32e+00 (3.08e-01)	4.52e+00 (8.62e-01) -	3.26e+00 (5.68e-01) -	3.47e+00 (6.36e-01) -	3.45e+00 (5.06e-01) -	3.24e+00 (5.48e-01) -
WCCI20-MaTSO7-T17	2.15e+02 (4.23e+01)	5.60e+02 (1.05e+02) -	3.23e+02 (6.79e+01) -	3.61e+02 (6.22e+01) -	3.64e+02 (8.16e+01) -	3.13e+02 (6.15e+01) -
WCCI20-MaTSO7-T18	1.87e+01 (3.15e+00)	4.36e+01 (3.46e+00) -	3.72e+01 (4.04e+00) -	3.95e+01 (2.94e+00) -	3.94e+01 (4.88e+00) -	3.90e+01 (3.80e+00) -
WCCI20-MaTSO7-T19	2.37e+00 (3.33e-01)	4.53e+00 (5.61e-01) -	3.41e+00 (5.80e-01) -	3.43e+00 (4.59e-01) -	3.51e+00 (7.18e-01) -	3.30e+00 (4.27e-01) -
WCCI20-MaTSO7-T20	1.99e+02 (4.14e+01)	5.78e+02 (1.30e+02) -	2.93e+02 (6.45e+01) -	3.19e+02 (5.30e+01) -	3.31e+02 (6.39e+01) -	3.13e+02 (6.87e+01) -
WCCI20-MaTSO7-T21	1.82e+01 (3.12e+00)	4.60e+01 (4.55e+00) -	3.82e+01 (4.09e+00) -	3.80e+01 (3.80e+00) -	3.80e+01 (3.38e+00) -	3.65e+01 (4.38e+00) -
WCCI20-MaTSO7-T22	2.36e+00 (4.12e-01)	4.36e+00 (5.91e-01) -	3.17e+00 (5.06e-01) -	3.58e+00 (4.90e-01) -	3.27e+00 (4.09e-01) -	4.12e+00 (3.76e+00) -
WCCI20-MaTSO7-T23	2.39e+02 (5.69e+01)	5.01e+02 (1.05e+02) -	3.30e+02 (5.41e+01) -	3.57e+02 (6.62e+01) -	3.44e+02 (6.51e+01) -	3.26e+02 (6.86e+01) -
WCCI20-MaTSO7-T24	1.84e+01 (2.46e+00)	4.49e+01 (4.72e+00) -	3.78e+01 (3.51e+00) -	3.85e+01 (4.88e+00) -	3.98e+01 (4.56e+00) -	3.86e+01 (3.92e+00) -
WCCI20-MaTSO7-T25	2.26e+00 (4.19e-01)	4.29e+00 (7.11e-01) -	3.15e+00 (4.67e-01) -	3.55e+00 (3.41e-01) -	3.21e+00 (4.38e-01) -	3.31e+00 (4.65e-01) -
WCCI20-MaTSO7-T26	2.15e+02 (4.78e+01)	5.60e+02 (9.46e+01) -	3.12e+02 (5.30e+01) -	3.44e+02 (7.48e+01) -	3.25e+02 (5.31e+01) -	3.29e+02 (6.40e+01) -
WCCI20-MaTSO7-T27	1.73e+01 (1.94e+00)	4.30e+01 (5.65e+00) -	3.98e+01 (3.74e+00) -	3.91e+01 (4.16e+00) -	3.97e+01 (4.98e+00) -	3.80e+01 (4.07e+00) -
WCCI20-MaTSO7-T28	2.29e+00 (5.07e-01)	4.38e+00 (6.80e-01) -	3.41e+00 (4.74e-01) -	3.55e+00 (5.04e-01) -	3.51e+00 (5.88e-01) -	3.78e+00 (1.87e+00) -
WCCI20-MaTSO7-T29	2.02e+02 (3.77e+01)	5.27e+02 (1.05e+02) -	3.33e+02 (5.22e+01) -	3.35e+02 (4.88e+01) -	3.22e+02 (4.43e+01) -	3.57e+02 (6.45e+01) -
WCCI20-MaTSO7-T30	1.80e+01 (2.02e+00)	4.30e+01 (4.98e+00) -	3.87e+01 (4.07e+00) -	3.95e+01 (4.45e+00) -	3.67e+01 (4.75e+00) -	3.77e+01 (3.74e+00) -
WCCI20-MaTSO7-T31	2.51e+00 (3.36e-01)	4.67e+00 (2.18e+00) -	3.21e+00 (4.11e-01) -	3.62e+00 (6.84e-01) -	3.43e+00 (5.83e-01) -	3.35e+00 (5.15e-01) -
WCCI20-MaTSO7-T32	2.12e+02 (5.81e+01)	5.25e+02 (7.14e+01) -	3.35e+02 (6.28e+01) -	3.48e+02 (7.17e+01) -	3.20e+02 (4.57e+01) -	3.14e+02 (6.74e+01) -
WCCI20-MaTSO7-T33	1.76e+01 (2.49e+00)	4.33e+01 (5.40e+00) -	3.82e+01 (3.91e+00) -	3.87e+01 (3.12e+00) -	3.87e+01 (4.42e+00) -	3.88e+01 (4.29e+00) -
WCCI20-MaTSO7-T34	2.29e+00 (3.65e-01)	4.27e+00 (8.54e-01) -	3.38e+00 (5.63e-01) -	3.73e+00 (5.25e-01) -	3.29e+00 (5.59e-01) -	3.69e+00 (5.05e-01) -
WCCI20-MaTSO7-T35	2.11e+02 (4.80e+01)	5.37e+02 (1.05e+02) -	3.00e+02 (6.86e+01) -	3.58e+02 (6.24e+01) -	3.54e+02 (8.25e+01) -	3.10e+02 (8.30e+01) -
WCCI20-MaTSO7-T36	1.76e+01 (2.65e+00)	4.27e+01 (4.97e+00) -	3.86e+01 (3.95e+00) -	3.98e+01 (3.49e+00) -	3.84e+01 (3.84e+00) -	3.81e+01 (5.42e+00) -
WCCI20-MaTSO7-T37	2.37e+00 (3.93e-01)	4.23e+00 (5.01e-01) -	3.33e+00 (4.83e-01) -	3.49e+00 (4.82e-01) -	3.12e+00 (4.30e-01) -	3.21e+00 (4.03e-01) -
WCCI20-MaTSO7-T38	2.03e+02 (3.75e+01)	5.23e+02 (1.03e+02) -	2.97e+02 (7.03e+01) -	3.50e+02 (6.40e+01) -	3.14e+02 (4.95e+01) -	3.31e+02 (6.86e+01) -
WCCI20-MaTSO7-T39	1.82e+01 (2.85e+00)	4.17e+01 (6.80e+00) -	3.76e+01 (5.48e+00) -	3.80e+01 (4.30e+00) -	3.68e+01 (4.29e+00) -	4.03e+01 (4.29e+00) -
WCCI20-MaTSO7-T40	2.42e+00 (3.04e-01)	4.33e+00 (8.22e-01) -	3.60e+00 (3.46e-01) -	3.57e+00 (4.84e-01) -	3.41e+00 (4.91e-01) -	3.35e+00 (5.65e-01) -
WCCI20-MaTSO7-T41	2.07e+02 (4.02e+01)	5.53e+02 (9.84e+01) -	3.50e+02 (6.64e+01) -	3.61e+02 (8.60e+01) -	3.25e+02 (7.74e+01) -	3.34e+02 (5.02e+01) -
WCCI20-MaTSO7-T42	1.96e+01 (2.61e+00)	4.56e+01 (2.62e+00) -	3.83e+01 (2.84e+00) -	3.90e+01 (4.35e+00) -	3.91e+01 (5.71e+00) -	3.77e+01 (5.16e+00) -
WCCI20-MaTSO7-T43	2.62e+00 (6.78e-01)	4.58e+00 (6.91e-01) -	3.37e+00 (4.70e-01) -	3.60e+00 (3.75e-01) -	3.38e+00 (5.50e-01) -	3.35e+00 (3.97e-01) -
WCCI20-MaTSO7-T44	1.81e+02 (4.00e+01)	5.21e+02 (1.11e+02) -	3.30e+02 (6.84e+01) -	3.35e+02 (5.63e+01) -	3.06e+02 (5.96e+01) -	3.33e+02 (6.35e+01) -
WCCI20-MaTSO7-T45	1.86e+01 (3.04e+00)	4.42e+01 (3.08e+00) -	3.91e+01 (3.20e+00) -	3.71e+01 (4.28e+00) -	3.87e+01 (3.72e+00) -	3.83e+01 (4.70e+00) -
WCCI20-MaTSO7-T46	2.28e+00 (4.32e-01)	4.58e+00 (7.21e-01) -	3.35e+00 (5.91e-01) -	3.59e+00 (3.90e-01) -	3.44e+00 (6.34e-01) -	3.23e+00 (6.03e-01) -
WCCI20-MaTSO7-T47	2.09e+02 (4.00e+01)	5.24e+02 (8.70e+01) -	3.38e+02 (5.12e+01) -	3.76e+02 (8.71e+01) -	3.45e+02 (6.46e+01) -	3.22e+02 (6.19e+01) -
WCCI20-MaTSO7-T48	1.72e+01 (2.52e+00)	4.21e+01 (6.80e+00) -	3.81e+01 (4.53e+00) -	3.92e+01 (5.23e+00) -	3.80e+01 (3.40e+00) -	3.87e+01 (5.28e+00) -
WCCI20-MaTSO7-T49	2.20e+00 (5.03e-01)	4.36e+00 (6.21e-01) -	3.30e+00 (5.19e-01) -	3.56e+00 (3.92e-01) -	3.34e+00 (5.44e-01) -	3.32e+00 (5.64e-01) -
WCCI20-MaTSO7-T50	2.09e+02 (4.26e+01)	4.73e+02 (9.66e+01) -	3.15e+02 (5.35e+01) -	3.54e+02 (7.11e+01) -	3.14e+02 (6.32e+01) -	3.25e+02 (6.86e+01) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO8 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO8 IN TEST SUITE 4.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO8-T1	4.24e+02 (4.42e+02)	1.45e+04 (2.62e+04) -	2.03e+04 (3.12e+04) -	2.73e+04 (5.12e+04) -	1.06e+04 (1.83e+04) -	1.09e+04 (1.91e+04) -
WCCI20-MaTSO8-T2	2.45e+00 (3.65e-01)	1.77e+01 (5.70e+00) -	3.42e+00 (5.78e-01) -	9.05e+00 (7.13e+00) -	5.00e+00 (4.34e+00) -	4.46e+00 (3.99e+00) -
WCCI20-MaTSO8-T3	2.33e+02 (5.47e+01)	5.91e+02 (1.24e+02) -	3.20e+02 (6.33e+01) -	3.43e+02 (6.73e+01) -	3.03e+02 (5.94e+01) -	3.25e+02 (8.37e+01) -
WCCI20-MaTSO8-T4	3.36e-02 (9.44e-03)	3.30e-01 (7.10e-02) -	2.36e-01 (5.98e-02) -	3.73e-01 (7.91e-02) -	1.54e-01 (3.36e-02) -	1.71e-01 (3.79e-02) -
WCCI20-MaTSO8-T5	2.62e+01 (3.97e+00)	4.34e+01 (4.19e+00) -	4.01e+01 (2.87e+00) -	4.15e+01 (3.46e+00) -	4.10e+01 (4.34e+00) -	4.00e+01 (4.45e+00) -
WCCI20-MaTSO8-T6	3.83e+02 (3.52e+02)	2.56e+04 (5.95e+04) -	1.95e+04 (3.85e+04) -	2.62e+04 (5.59e+04) -	4.88e+04 (1.28e+05) -	1.44e+04 (2.34e+04) -
WCCI20-MaTSO8-T7	2.15e+00 (4.08e-01)	1.37e+01 (7.93e+00) -	3.42e+00 (4.91e-01) -	3.84e+00 (5.35e-01) -	3.33e+00 (6.56e-01) -	3.54e+00 (7.87e-01) -
WCCI20-MaTSO8-T8	2.32e+02 (4.90e+01)	5.63e+02 (1.01e+02) -	3.24e+02 (5.99e+01) -	3.01e+02 (4.99e+01) -	3.28e+02 (5.61e+01) -	3.13e+02 (6.59e+01) -
WCCI20-MaTSO8-T9	3.30e-02 (9.88e-03)	3.57e-01 (5.81e-02) -	2.14e-01 (4.98e-02) -	3.72e-01 (7.21e-02) -	1.76e-01 (4.68e-02) -	1.61e-01 (2.96e-02) -
WCCI20-MaTSO8-T10	2.92e+01 (3.54e+00)	4.56e+01 (4.49e+00) -	3.97e+01 (3.95e+00) -	3.97e+01 (3.69e+00) -	3.91e+01 (4.93e+00) -	4.01e+01 (4.14e+00) -
WCCI20-MaTSO8-T11	6.45e+02 (8.15e+02)	3.93e+04 (4.92e+04) -	3.57e+04 (8.00e+04) -	7.88e+04 (1.84e+05) -	5.70e+04 (7.42e+04) -	3.39e+04 (6.67e+04) -
WCCI20-MaTSO8-T12	2.06e+00 (5.38e-01)	1.32e+01 (7.78e+00) -	3.53e+00 (4.12e-01) -	3.77e+00 (6.78e-01) -	4.77e+00 (4.18e+00) -	3.47e+00 (5.62e-01) -
WCCI20-MaTSO8-T13	2.35e+02 (4.33e+01)	5.50e+02 (8.20e+01) -	3.30e+02 (6.43e+01) -	3.40e+02 (6.33e+01) -	3.39e+02 (5.72e+01) -	3.07e+02 (4.35e+01) -
WCCI20-MaTSO8-T14	3.52e-02 (1.31e-02)	3.40e-01 (7.49e-02) -	2.37e-01 (5.62e-02) -	3.70e-01 (6.27e-02) -	1.75e-01 (3.60e-02) -	1.84e-01 (3.98e-02) -
WCCI20-MaTSO8-T15	2.65e+01 (2.73e+00)	4.47e+01 (4.43e+00) -	3.99e+01 (5.22e+00) -	3.94e+01 (4.26e+00) -	3.96e+01 (3.55e+00) -	4.12e+01 (5.03e+00) -
WCCI20-MaTSO8-T16	4.72e+02 (4.57e+02)	1.70e+04 (3.16e+04) -	7.18e+03 (1.42e+04) -	1.97e+04 (3.16e+04) -	5.64e+03 (1.03e+04) -	2.75e+04 (6.83e+04) -
WCCI20-MaTSO8-T17	2.36e+00 (4.07e-01)	1.55e+01 (7.20e+00) -	3.16e+00 (4.49e-01) -	3.74e+00 (5.10e-01) -	3.86e+00 (2.38e+00) -	5.70e+00 (5.26e+00) -
WCCI20-MaTSO8-T18	2.15e+02 (4.26e+01)	5.15e+02 (9.00e+01) -	3.46e+02 (6.02e+01) -	3.52e+02 (5.85e+01) -	2.96e+02 (5.35e+01) -	3.36e+02 (8.34e+01) -
WCCI20-MaTSO8-T19	4.55e-02 (1.58e-02)	3.70e-01 (5.21e-02) -	2.21e-01 (5.61e-02) -	3.46e-01 (5.38e-02) -	1.68e-01 (3.78e-02) -	1.81e-01 (3.78e-02) -
WCCI20-MaTSO8-T20	2.83e+01 (3.87e+00)	4.48e+01 (4.35e+00) -	4.12e+01 (4.47e+00) -	3.94e+01 (4.01e+00) -	3.98e+01 (4.41e+00) -	3.82e+01 (3.91e+00) -
WCCI20-MaTSO8-T21	3.15e+03 (3.64e+03)	9.61e+04 (1.63e+05) -	9.64e+04 (1.08e+05) -	3.49e+04 (5.39e+04) -	3.67e+04 (4.72e+04) -	1.06e+05 (1.86e+05) =
WCCI20-MaTSO8-T21	2.37e+00 (4.08e-01)	1.76e+01 (5.83e+00) -	3.40e+00 (4.81e-01) -	4.91e+00 (3.75e+00) -	7.13e+00 (7.04e+00) -	7.20e+00 (7.19e+00) -
WCCI20-MaTSO8-T23	2.05e+02 (5.21e+01)	5.73e+02 (1.24e+02) -	3.07e+02 (4.66e+01) -	3.46e+02 (6.38e+01) -	3.22e+02 (5.69e+01) -	3.50e+02 (8.72e+01) -
WCCI20-MaTSO8-T24	3.24e-02 (7.76e-03)	3.25e-01 (4.54e-02) -	2.05e-01 (4.33e-02) -	3.85e-01 (7.04e-02) -	1.75e-01 (3.98e-02) -	1.58e-01 (4.21e-02) -
WCCI20-MaTSO8-T25	2.73e+01 (4.68e+00)	4.41e+01 (3.79e+00) -	4.07e+01 (2.85e+00) -	4.06e+01 (3.92e+00) -	3.93e+01 (3.42e+00) -	4.08e+01 (4.42e+00) -
WCCI20-MaTSO8-T26	8.87e+02 (8.75e+02)	2.28e+04 (4.95e+04) -	9.85e+03 (2.60e+04) -	2.43e+04 (7.28e+04) -	2.21e+04 (3.10e+04) -	1.16e+04 (2.87e+04) -
WCCI20-MaTSO8-T27	2.35e+00 (3.67e-01)	1.47e+01 (7.55e+00) -	3.45e+00 (3.93e-01) -	3.87e+00 (4.84e-01) -	4.02e+00 (3.76e+00) -	4.34e+00 (3.76e+00) -
WCCI20-MaTSO8-T28	2.12e+02 (4.00e+01)	5.49e+02 (9.99e+01) -	3.44e+02 (5.63e+01) -	3.43e+02 (6.92e+01) -	3.19e+02 (4.63e+01) -	3.22e+02 (5.74e+01) -
WCCI20-MaTSO8-T29	3.76e-02 (1.42e-02)	3.50e-01 (6.57e-02) -	2.14e-01 (4.35e-02) -	3.64e-01 (5.27e-02) -	1.67e-01 (3.36e-02) -	1.60e-01 (3.13e-02) -
WCCI20-MaTSO8-T30	2.63e+01 (5.29e+00)	4.57e+01 (4.73e+00) -	4.01e+01 (4.11e+00) -	4.13e+01 (3.20e+00) -	4.08e+01 (3.28e+00) -	4.07e+01 (5.94e+00) -
WCCI20-MaTSO8-T31	5.12e+02 (4.19e+02)	2.81e+04 (8.14e+04) -	9.00e+03 (2.32e+04) -	1.61e+04 (4.24e+04) -	1.66e+04 (3.90e+04) -	7.82e+03 (8.62e+03) -
WCCI20-MaTSO8-T31	2.50e+00 (3.46e-01)	1.23e+01 (8.02e+00) -	3.33e+00 (4.94e-01) -	3.66e+00 (6.18e-01) -	8.00e+00 (7.41e+00) -	6.27e+00 (6.48e+00) -
WCCI20-MaTSO8-T33	2.23e+02 (5.38e+01)	5.66e+02 (1.13e+02) -	3.45e+02 (6.27e+01) -	3.49e+02 (5.88e+01) -	3.46e+02 (3.95e+01) -	3.21e+02 (6.00e+01) -
WCCI20-MaTSO8-T34	4.00e-02 (1.38e-02)	3.46e-01 (5.69e-02) -	2.28e-01 (4.65e-02) -	3.74e-01 (6.06e-02) -	1.63e-01 (3.92e-02) -	1.68e-01 (4.03e-02) -
WCCI20-MaTSO8-T35	2.74e+01 (4.34e+00)	4.71e+01 (4.07e+00) -	4.03e+01 (4.06e+00) -	4.05e+01 (3.83e+00) -	4.13e+01 (3.96e+00) -	4.04e+01 (3.62e+00) -
WCCI20-MaTSO8-T36	6.68e+02 (6.44e+02)	1.27e+04 (1.99e+04) -	7.56e+03 (9.65e+03) -	3.51e+04 (6.90e+04) -	1.62e+04 (3.16e+04) -	3.61e+03 (7.41e+03) -
WCCI20-MaTSO8-T37	2.27e+00 (3.20e-01)	1.44e+01 (7.76e+00) -	3.24e+00 (5.14e-01) -	5.57e+00 (5.03e+00) -	7.62e+00 (7.62e+00) -	6.91e+00 (7.17e+00) -
WCCI20-MaTSO8-T38	2.24e+02 (5.36e+01)	5.31e+02 (1.11e+02) -	3.21e+02 (4.97e+01) -	3.30e+02 (6.01e+01) -	3.16e+02 (5.72e+01) -	3.14e+02 (4.28e+01) -
WCCI20-MaTSO8-T39	3.71e-02 (1.40e-02)	3.59e-01 (6.65e-02) -	2.19e-01 (4.15e-02) -	3.65e-01 (7.58e-02) -	1.69e-01 (4.08e-02) -	1.71e-01 (3.24e-02) -
WCCI20-MaTSO8-T40	2.68e+01 (3.99e+00)	4.64e+01 (3.86e+00) -	4.10e+01 (4.52e+00) -	4.00e+01 (4.62e+00) -	4.10e+01 (3.17e+00) -	3.87e+01 (4.90e+00) -
WCCI20-MaTSO8-T41	9.69e+02 (7.97e+02)	1.37e+04 (3.72e+04) -	3.12e+04 (8.55e+04) -	2.76e+04 (5.48e+04) -	1.08e+04 (2.51e+04) -	2.46e+04 (8.18e+04) -
WCCI20-MaTSO8-T41	2.51e+00 (4.65e-01)	1.37e+04 (3.72e+04) -	3.41e+00 (3.65e-01) -	3.73e+00 (5.43e-01) -	6.03e+00 (6.26e+00) -	5.36e+00 (5.57e+00) -
WCCI20-MaTSO8-142 WCCI20-MaTSO8-T43	2.51e+00 (4.65e-01) 2.42e+02 (5.68e+01)	1.46e+01 (7.64e+00) - 5.67e+02 (9.59e+01) -	3.41e+00 (3.65e-01) -	3.73e+00 (5.43e-01) -	3.18e+02 (6.54e+01) -	3.50e+00 (5.57e+00) -
WCCI20-MaTSO8-143	3.47e-02 (1.49e-02)		2.44e-01 (4.44e-02) -	3.23e+02 (5.7/e+01) - 3.74e-01 (5.44e-02) -		
WCCI20-MaTSO8-T44	3.4/e-02 (1.49e-02) 2.64e+01 (3.83e+00)	3.44e-01 (6.85e-02) - 4.30e+01 (4.28e+00) -	2.44e-01 (4.44e-02) - 3.86e+01 (4.52e+00) -	3.74e-01 (5.44e-02) - 3.92e+01 (4.02e+00) -	1.62e-01 (4.52e-02) - 3.98e+01 (4.26e+00) -	1.69e-01 (3.71e-02) - 4.06e+01 (3.89e+00) -
WCCI20-MaTSO8-T46	3.56e+02 (4.08e+02)	2.07e+04 (7.46e+04) -	2.63e+04 (4.41e+04) -	3.92e+01 (4.02e+00) - 1.54e+04 (2.11e+04) -	3.98e+01 (4.26e+00) - 1.12e+04 (2.62e+04) -	1.21e+04 (2.43e+04) -
WCCI20-MaTSO8-146 WCCI20-MaTSO8-T47	2.40e+00 (3.67e-01)	\ /	` /	4.13e+04 (2.11e+04) -	1.12e+04 (2.62e+04) - 6.89e+00 (6.82e+00) -	6.45e+00 (6.55e+00) -
WCCI20-MaTSO8-147	2.40e+00 (3.67e-01) 2.16e+02 (5.38e+01)	1.71e+01 (6.12e+00) - 5.30e+02 (1.26e+02) -	3.38e+00 (4.33e-01) - 3.36e+02 (6.49e+01) -	4.13e+00 (8.22e-01) - 3.41e+02 (4.22e+01) -		2.98e+02 (4.84e+01) -
WCCI20-MaTSO8-148 WCCI20-MaTSO8-T49		3.29e-01 (4.84e-02) -			3.24e+02 (4.32e+01) - 1.59e-01 (2.81e-02) -	2.98e+02 (4.84e+01) - 1.61e-01 (2.94e-02) -
WCCI20-MaTSO8-T50	3.51e-02 (8.43e-03) 2.53e+01 (3.63e+00)	3.29e-01 (4.84e-02) - 4.52e+01 (4.16e+00) -	2.44e-01 (4.20e-02) - 3.98e+01 (4.03e+00) -	3.55e-01 (6.14e-02) - 4.00e+01 (4.24e+00) -	4.02e+01 (4.91e+00) -	3.97e+01 (4.19e+00) -
	` /	` ′		` ′	4.02e+01 (4.91e+00) - 0/50/0	
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO9 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO9 IN TEST SUITE 4.

Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO9-T1	5.62e+02 (6.37e+02)	1.07e+04 (2.14e+04) -	9.26e+03 (1.52e+04) -	1.85e+04 (3.92e+04) -	9.50e+03 (1.98e+04) -	2.99e+03 (3.81e+03) -
WCCI20-MaTSO9-T2	2.39e+00 (4.24e-01)	1.22e+01 (7.97e+00) -	3.35e+00 (5.05e-01) -	3.78e+00 (4.86e-01) -	5.66e+00 (5.55e+00) -	6.70e+00 (6.80e+00) -
WCCI20-MaTSO9-T3	2.26e+02 (5.70e+01)	5.34e+02 (1.17e+02) -	3.49e+02 (5.21e+01) -	3.41e+02 (6.39e+01) -	3.14e+02 (6.47e+01) -	3.40e+02 (7.99e+01) -
WCCI20-MaTSO9-T4	3.32e-02 (1.22e-02)	3.51e-01 (4.94e-02) -	2.35e-01 (5.36e-02) -	3.78e-01 (5.93e-02) -	1.59e-01 (2.49e-02) -	1.63e-01 (3.66e-02) -
WCCI20-MaTSO9-T5	2.87e+01 (3.87e+00)	4.46e+01 (5.38e+00) -	3.87e+01 (3.52e+00) -	3.99e+01 (4.82e+00) -	3.94e+01 (4.27e+00) -	4.08e+01 (4.79e+00) -
WCCI20-MaTSO9-T6	4.40e+03 (1.24e+03)	5.42e+03 (1.03e+03) -	5.03e+03 (1.19e+03) =	4.85e+03 (1.21e+03) =	5.50e+03 (1.49e+03) -	5.24e+03 (9.04e+02) -
WCCI20-MaTSO9-T7	8.42e+02 (9.57e+02)	5.18e+04 (6.52e+04) -	2.92e+04 (4.27e+04) -	7.41e+04 (1.17e+05) -	4.34e+04 (7.10e+04) -	2.26e+04 (5.84e+04) -
WCCI20-MaTSO9-T8	2.36e+00 (4.12e-01)	1.54e+01 (7.35e+00) -	3.42e+00 (4.61e-01) -	3.64e+00 (5.33e-01) -	6.89e+00 (7.18e+00) -	5.25e+00 (5.48e+00) -
WCCI20-MaTSO9-T9	2.25e+02 (3.50e+01)	5.81e+02 (9.62e+01) -	3.30e+02 (6.19e+01) -	3.49e+02 (4.90e+01) -	3.49e+02 (6.39e+01) -	3.27e+02 (5.00e+01) -
WCCI20-MaTSO9-T10	4.19e-02 (1.56e-02)	3.04e-01 (6.90e-02) -	2.34e-01 (4.07e-02) -	3.71e-01 (7.35e-02) -	1.69e-01 (3.78e-02) -	1.76e-01 (4.19e-02) -
WCCI20-MaTSO9-T11	2.74e+01 (4.01e+00)	4.56e+01 (5.40e+00) -	4.01e+01 (4.74e+00) -	4.06e+01 (3.86e+00) -	3.85e+01 (3.94e+00) -	4.06e+01 (4.49e+00) -
WCCI20-MaTSO9-T12	3.67e+03 (1.32e+03)	5.18e+03 (1.13e+03) -	4.69e+03 (1.13e+03) -	4.86e+03 (9.56e+02) -	4.82e+03 (1.29e+03) -	5.41e+03 (1.19e+03) -
WCCI20-MaTSO9-T13	6.51e+02 (4.84e+02)	3.18e+04 (5.26e+04) -	2.49e+04 (4.68e+04) -	3.85e+04 (7.03e+04) -	9.75e+03 (1.93e+04) -	1.70e+04 (3.19e+04) -
WCCI20-MaTSO9-T14	2.36e+00 (4.33e-01)	1.53e+01 (7.37e+00) -	3.39e+00 (6.25e-01) -	3.81e+00 (5.26e-01) -	4.20e+00 (4.02e+00) -	4.25e+00 (3.75e+00) -
WCCI20-MaTSO9-T15	2.18e+02 (4.35e+01)	5.64e+02 (1.10e+02) -	3.21e+02 (6.28e+01) -	3.34e+02 (6.09e+01) -	3.33e+02 (4.94e+01) -	3.19e+02 (7.55e+01) -
WCCI20-MaTSO9-T16	3.60e-02 (1.17e-02)	3.60e-01 (7.52e-02) -	2.39e-01 (4.96e-02) -	3.75e-01 (4.70e-02) -	1.76e-01 (3.66e-02) -	1.73e-01 (3.03e-02) -
WCCI20-MaTSO9-T17	2.80e+01 (3.43e+00)	4.68e+01 (3.41e+00) -	3.96e+01 (4.00e+00) -	4.07e+01 (4.32e+00) -	3.99e+01 (3.38e+00) -	4.00e+01 (4.40e+00) -
WCCI20-MaTSO9-T18	4.14e+03 (1.14e+03)	5.72e+03 (1.49e+03) -	5.51e+03 (1.07e+03) -	5.37e+03 (9.42e+02) -	5.67e+03 (1.26e+03) -	5.44e+03 (1.12e+03) -
WCCI20-MaTSO9-T19	4.41e+02 (5.22e+02)	3.05e+04 (4.72e+04) -	2.02e+04 (3.69e+04) -	4.75e+04 (1.11e+05) -	2.25e+04 (4.89e+04) -	1.88e+04 (3.04e+04) -
WCCI20-MaTSO9-T20	2.24e+00 (4.96e-01)	1.85e+01 (4.78e+00) -	3.22e+00 (4.64e-01) -	4.42e+00 (1.58e+00) -	6.26e+00 (6.38e+00) -	5.16e+00 (5.49e+00) -
WCCI20-MaTSO9-T21	2.30e+02 (5.78e+01)	5.06e+02 (8.77e+01) -	2.99e+02 (6.16e+01) -	3.40e+02 (5.15e+01) -	3.36e+02 (7.10e+01) -	2.97e+02 (7.60e+01) -
WCCI20-MaTSO9-T22	4.53e-02 (1.95e-02)	3.52e-01 (7.30e-02) -	2.37e-01 (3.64e-02) -	3.48e-01 (6.16e-02) -	1.77e-01 (4.21e-02) -	1.78e-01 (2.80e-02) -
WCCI20-MaTSO9-T23	2.89e+01 (3.95e+00)	4.74e+01 (6.02e+00) -	4.01e+01 (3.28e+00) -	3.93e+01 (4.30e+00) -	3.93e+01 (3.16e+00) -	4.18e+01 (2.39e+00) -
WCCI20-MaTSO9-T24	3.50e+03 (1.82e+03)	5.52e+03 (1.20e+03) -	5.02e+03 (1.05e+03) -	5.00e+03 (1.36e+03) -	5.12e+03 (1.23e+03) -	5.18e+03 (1.21e+03) -
WCCI20-MaTSO9-T25	1.41e+03 (1.25e+03)	1.13e+04 (1.96e+04) -	1.12e+04 (2.28e+04) -	1.44e+04 (4.30e+04) -	7.54e+03 (2.09e+04) =	1.87e+03 (1.47e+03) =
WCCI20-MaTSO9-T26	2.34e+00 (4.99e-01)	1.35e+01 (8.17e+00) -	3.40e+00 (5.67e-01) -	5.20e+00 (4.10e+00) -	6.90e+00 (7.13e+00) -	7.54e+00 (7.03e+00) -
WCCI20-MaTSO9-T27	2.25e+02 (4.35e+01)	5.21e+02 (7.56e+01) -	3.29e+02 (4.55e+01) -	3.50e+02 (5.40e+01) -	3.14e+02 (7.15e+01) -	3.27e+02 (7.33e+01) -
WCCI20-MaTSO9-T28	4.16e-02 (1.85e-02)	3.48e-01 (5.87e-02) -	2.34e-01 (4.41e-02) -	3.79e-01 (9.06e-02) -	1.61e-01 (3.24e-02) -	1.81e-01 (4.25e-02) -
WCCI20-MaTSO9-T29	2.67e+01 (3.25e+00)	4.46e+01 (4.85e+00) -	3.98e+01 (4.51e+00) -	3.90e+01 (4.89e+00) -	4.14e+01 (3.64e+00) -	3.93e+01 (4.50e+00) -
WCCI20-MaTSO9-T30	4.44e+03 (1.22e+03)	5.89e+03 (1.24e+03) -	5.60e+03 (1.04e+03) -	5.91e+03 (1.23e+03) -	5.34e+03 (1.11e+03) -	5.28e+03 (7.24e+02) -
WCCI20-MaTSO9-T31	1.27e+03 (9.98e+02)	1.71e+04 (2.82e+04) -	4.72e+03 (7.57e+03) -	1.60e+04 (3.01e+04) -	1.64e+04 (2.39e+04) -	7.50e+03 (1.40e+04) -
WCCI20-MaTSO9-T32	2.35e+00 (4.75e-01)	1.29e+01 (8.08e+00) -	3.39e+00 (5.44e-01) -	3.75e+00 (4.39e-01) -	6.61e+00 (6.59e+00) -	4.59e+00 (3.88e+00) -
WCCI20-MaTSO9-T33	2.49e+02 (5.81e+01)	5.50e+02 (1.27e+02) -	3.32e+02 (5.30e+01) -	3.47e+02 (5.85e+01) -	3.37e+02 (6.69e+01) -	3.41e+02 (6.79e+01) -
WCCI20-MaTSO9-T34	3.76e-02 (1.27e-02)	3.22e-01 (5.59e-02) -	2.40e-01 (4.12e-02) -	3.79e-01 (5.34e-02) -	1.73e-01 (4.28e-02) -	1.73e-01 (3.44e-02) -
WCCI20-MaTSO9-T35	2.95e+01 (4.23e+00)	4.64e+01 (3.34e+00) -	3.98e+01 (4.14e+00) -	4.11e+01 (3.15e+00) -	4.02e+01 (3.57e+00) -	4.06e+01 (4.12e+00) -
WCCI20-MaTSO9-T36	4.56e+03 (1.26e+03)	5.60e+03 (1.49e+03) -	5.52e+03 (1.37e+03) -	5.19e+03 (1.06e+03) =	5.44e+03 (9.04e+02) -	5.82e+03 (1.11e+03) -
WCCI20-MaTSO9-T37	3.29e+02 (1.35e+02)	1.92e+04 (2.85e+04) -	2.78e+04 (4.76e+04) -	4.62e+04 (7.40e+04) -	2.07e+04 (5.11e+04) -	3.00e+04 (6.91e+04) -
WCCI20-MaTSO9-T38	2.47e+00 (4.70e-01)	1.31e+01 (7.91e+00) -	3.24e+00 (5.01e-01) -	4.72e+00 (3.87e+00) -	5.11e+00 (5.50e+00) -	4.24e+00 (3.86e+00) -
WCCI20-MaTSO9-T39	2.27e+02 (3.75e+01)	5.64e+02 (9.52e+01) -	3.47e+02 (6.43e+01) -	3.50e+02 (6.28e+01) -	3.71e+02 (9.83e+01) -	3.46e+02 (7.95e+01) -
WCCI20-MaTSO9-T40	3.93e-02 (1.22e-02)	3.31e-01 (7.09e-02) -	2.30e-01 (6.18e-02) -	3.86e-01 (5.77e-02) -	1.76e-01 (3.98e-02) -	1.63e-01 (3.76e-02) -
WCCI20-MaTSO9-T41	2.75e+01 (4.27e+00)	4.55e+01 (3.38e+00) -	3.98e+01 (3.67e+00) -	3.85e+01 (3.51e+00) -	3.98e+01 (4.41e+00) -	3.86e+01 (2.56e+00) -
WCCI20-MaTSO9-T42	3.78e+03 (1.07e+03)	5.14e+03 (8.44e+02) -	4.68e+03 (9.94e+02) -	4.56e+03 (1.33e+03) -	4.61e+03 (1.07e+03) -	4.33e+03 (9.18e+02) =
WCCI20-MaTSO9-T43	5.51e+02 (4.42e+02)	2.21e+04 (4.19e+04) -	1.84e+04 (3.05e+04) -	3.45e+04 (5.56e+04) -	1.42e+04 (4.48e+04) -	1.63e+04 (3.32e+04) -
WCCI20-MaTSO9-T44	2.48e+00 (4.09e-01)	1.37e+01 (7.89e+00) -	3.46e+00 (5.29e-01) -	3.61e+00 (4.27e-01) -	4.51e+00 (3.98e+00) -	7.13e+00 (7.06e+00) -
WCCI20-MaTSO9-T45	2.42e+02 (5.21e+01)	5.50e+02 (9.83e+01) -	3.35e+02 (6.99e+01) -	3.54e+02 (6.25e+01) -	3.14e+02 (6.82e+01) -	3.04e+02 (4.98e+01) -
WCCI20-MaTSO9-T46	3.28e-02 (1.39e-02)	3.35e-01 (6.29e-02) -	2.21e-01 (5.41e-02) -	3.98e-01 (6.07e-02) -	1.62e-01 (4.20e-02) -	1.73e-01 (3.10e-02) -
WCCI20-MaTSO9-T47	2.76e+01 (3.78e+00)	4.32e+01 (4.02e+00) -	4.05e+01 (3.89e+00) -	4.04e+01 (4.64e+00) -	4.02e+01 (4.94e+00) -	4.01e+01 (3.83e+00) -
WCCI20-MaTSO9-T48	4.04e+03 (1.48e+03)	5.69e+03 (1.32e+03) -	5.15e+03 (1.19e+03) -	5.19e+03 (1.03e+03) -	5.47e+03 (1.30e+03) -	5.43e+03 (9.81e+02) -
WCCI20-MaTSO9-T49	7.33e+02 (5.85e+02)	5.28e+04 (1.01e+05) -	3.37e+04 (5.99e+04) -	5.02e+04 (1.08e+05) -	3.37e+04 (8.68e+04) -	4.13e+04 (6.96e+04) -
WCCI20-MaTSO9-T50	2.35e+00 (3.98e-01)	1.71e+01 (6.16e+00) -	3.40e+00 (4.15e-01) -	3.71e+00 (6.73e-01) -	5.96e+00 (6.24e+00) -	7.44e+00 (7.15e+00) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0	0/50/0
*		1		1	I	** *

TABLE S39

COMPARISON OF KR-MTGA, AEMTO, MATDE, SBO, EMEA, AND GA IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN WCCI20-MATSO10 IN TEST SUITE 4. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN WCCI20-MATSO10 IN TEST SUITE 4.

	TVD 1 mmg :	172.470	1	an a		
Problem	KR-MTGA	AEMTO	MaTGA	SBO	EMEA	GA
WCCI20-MaTSO10-T1	2.49e+00 (3.78e-01)	1.52e+01 (7.58e+00) -	3.44e+00 (3.52e-01) -	3.23e+00 (4.43e-01) -	6.22e+00 (5.77e+00) -	4.75e+00 (4.49e+00) -
WCCI20-MaTSO10-T2	2.37e+02 (3.57e+01)	5.36e+02 (8.29e+01) -	3.40e+02 (7.13e+01) -	3.30e+02 (6.55e+01) -	3.26e+02 (5.70e+01) -	3.29e+02 (5.95e+01) -
WCCI20-MaTSO10-T3	4.15e-02 (1.30e-02)	3.34e-01 (5.94e-02) -	2.43e-01 (4.86e-02) -	3.65e-01 (5.37e-02) -	1.83e-01 (4.02e-02) -	1.83e-01 (4.41e-02) -
WCCI20-MaTSO10-T4	2.93e+01 (3.68e+00)	4.63e+01 (5.57e+00) -	3.79e+01 (3.85e+00) -	4.03e+01 (4.44e+00) -	3.94e+01 (3.71e+00) -	4.07e+01 (4.35e+00) -
WCCI20-MaTSO10-T5	4.41e+03 (1.09e+03)	5.31e+03 (1.03e+03) -	5.40e+03 (1.01e+03) -	5.56e+03 (1.13e+03) -	5.23e+03 (8.78e+02) -	5.29e+03 (1.19e+03) -
WCCI20-MaTSO10-T6	2.32e+00 (5.03e-01)	1.52e+01 (7.52e+00) -	3.29e+00 (4.11e-01) -	3.70e+00 (5.96e-01) -	5.47e+00 (5.24e+00) -	5.46e+00 (5.23e+00) -
WCCI20-MaTSO10-T7 WCCI20-MaTSO10-T8	2.10e+02 (4.47e+01)	5.77e+02 (8.64e+01) -	3.63e+02 (6.72e+01) -	3.22e+02 (5.52e+01) -	3.41e+02 (7.05e+01) -	3.27e+02 (8.15e+01) -
WCCI20-MaTSO10-18 WCCI20-MaTSO10-T9	4.48e-02 (1.31e-02) 2.74e+01 (3.10e+00)	3.34e-01 (5.51e-02) - 4.56e+01 (4.41e+00) -	2.31e-01 (4.10e-02) - 4.04e+01 (4.37e+00) -	3.65e-01 (7.89e-02) - 3.95e+01 (3.25e+00) -	1.66e-01 (2.54e-02) - 3.97e+01 (3.37e+00) -	1.80e-01 (4.03e-02) - 3.97e+01 (4.99e+00) -
WCCI20-MaTSO10-T10	4.82e+03 (9.54e+02)	6.26e+03 (1.04e+03) -	5.49e+03 (1.21e+03) =	6.00e+03 (8.88e+02) -	5.70e+03 (1.10e+03) -	5.63e+03 (8.58e+02) -
WCCI20-MaTSO10-T10	4.82e+03 (9.54e+02) 2.56e+00 (4.94e-01)	1.44e+01 (7.78e+00) -	3.49e+03 (1.21e+03) = 3.46e+00 (4.69e-01) -	6.63e+00 (6.00e+00) -	5./0e+03 (1.10e+03) - 6.19e+00 (6.48e+00) -	5.63e+03 (8.58e+02) - 6.99e+00 (7.00e+00) -
WCCI20-MaTSO10-T11				3.04e+02 (4.34e+01) -		
WCCI20-MaTSO10-T12	2.25e+02 (4.48e+01)	5.08e+02 (8.55e+01) -	3.27e+02 (5.03e+01) -		2.96e+02 (4.44e+01) -	3.34e+02 (5.72e+01) -
WCCI20-MaTSO10-T13	4.64e-02 (1.66e-02) 2.74e+01 (3.25e+00)	3.30e-01 (5.61e-02) - 4.76e+01 (5.35e+00) -	2.21e-01 (5.01e-02) - 3.70e+01 (4.16e+00) -	3.44e-01 (6.52e-02) - 4.17e+01 (4.56e+00) -	1.57e-01 (3.14e-02) - 3.95e+01 (3.56e+00) -	1.68e-01 (4.62e-02) - 3.79e+01 (4.95e+00) -
WCCI20-MaTSO10-T14						
	4.34e+03 (1.18e+03)	5.26e+03 (9.78e+02) -	5.12e+03 (1.16e+03) -	4.94e+03 (1.15e+03) =	5.09e+03 (1.06e+03) =	5.04e+03 (1.10e+03) =
WCCI20-MaTSO10-T16	2.35e+00 (4.17e-01)	1.53e+01 (7.40e+00) -	3.58e+00 (5.68e-01) -	6.25e+00 (4.69e+00) -	5.88e+00 (6.15e+00) -	1.03e+01 (8.34e+00) -
WCCI20-MaTSO10-T17	2.35e+02 (5.29e+01)	5.71e+02 (1.18e+02) -	3.07e+02 (5.78e+01) -	3.49e+02 (6.84e+01) -	3.11e+02 (3.88e+01) -	3.24e+02 (5.62e+01) -
WCCI20-MaTSO10-T18	4.55e-02 (1.10e-02)	3.36e-01 (6.17e-02) -	2.46e-01 (5.94e-02) -	3.57e-01 (5.78e-02) -	1.80e-01 (3.40e-02) -	1.60e-01 (3.47e-02) -
WCCI20-MaTSO10-T19	2.80e+01 (3.76e+00)	4.46e+01 (4.71e+00) -	3.95e+01 (3.14e+00) -	4.13e+01 (3.67e+00) -	4.21e+01 (4.56e+00) -	4.00e+01 (3.37e+00) -
WCCI20-MaTSO10-T20	4.96e+03 (1.07e+03)	5.71e+03 (9.98e+02) =	5.34e+03 (1.20e+03) =	5.23e+03 (8.40e+02) =	5.17e+03 (6.84e+02) =	5.48e+03 (1.05e+03) =
WCCI20-MaTSO10-T21	2.37e+00 (5.39e-01)	1.22e+01 (7.97e+00) -	3.33e+00 (4.59e-01) -	3.60e+00 (3.34e-01) -	4.52e+00 (4.10e+00) -	7.33e+00 (6.57e+00) -
WCCI20-MaTSO10-T22	2.32e+02 (5.78e+01)	5.38e+02 (9.73e+01) -	3.47e+02 (5.90e+01) -	3.56e+02 (8.66e+01) -	3.33e+02 (5.37e+01) -	3.26e+02 (5.44e+01) -
WCCI20-MaTSO10-T23	4.53e-02 (1.46e-02)	3.41e-01 (7.72e-02) -	2.25e-01 (4.98e-02) -	3.65e-01 (6.06e-02) -	1.68e-01 (3.81e-02) -	1.69e-01 (3.35e-02) -
WCCI20-MaTSO10-T24	2.68e+01 (2.93e+00)	4.35e+01 (6.32e+00) -	4.19e+01 (3.24e+00) -	3.99e+01 (3.22e+00) -	3.79e+01 (3.72e+00) -	3.89e+01 (4.42e+00) -
WCCI20-MaTSO10-T25	3.42e+03 (1.44e+03)	5.31e+03 (6.34e+02) -	4.36e+03 (1.12e+03) -	4.23e+03 (1.09e+03) =	4.72e+03 (1.18e+03) -	4.61e+03 (9.94e+02) -
WCCI20-MaTSO10-T26	2.67e+00 (3.82e-01)	1.45e+01 (7.68e+00) -	3.40e+00 (5.04e-01) -	4.94e+00 (3.73e+00) -	7.34e+00 (7.17e+00) -	1.24e+01 (8.73e+00) -
WCCI20-MaTSO10-T27	2.22e+02 (5.85e+01)	5.28e+02 (8.66e+01) -	3.42e+02 (7.01e+01) -	3.62e+02 (7.48e+01) -	3.28e+02 (5.50e+01) -	3.18e+02 (6.29e+01) -
WCCI20-MaTSO10-T28	3.29e-02 (1.46e-02)	3.38e-01 (7.98e-02) -	2.33e-01 (6.34e-02) -	3.71e-01 (5.73e-02) -	1.72e-01 (3.32e-02) -	1.58e-01 (3.55e-02) -
WCCI20-MaTSO10-T29	2.76e+01 (3.46e+00)	4.62e+01 (5.08e+00) -	3.90e+01 (4.59e+00) -	4.13e+01 (4.67e+00) -	4.19e+01 (3.57e+00) -	4.04e+01 (3.53e+00) -
WCCI20-MaTSO10-T30	4.70e+03 (1.20e+03)	5.65e+03 (7.26e+02) -	5.53e+03 (9.29e+02) -	5.25e+03 (1.16e+03) =	5.20e+03 (1.03e+03) =	4.98e+03 (1.20e+03) =
WCCI20-MaTSO10-T31	2.57e+00 (4.80e-01)	1.37e+01 (7.93e+00) -	3.60e+00 (5.96e-01) -	3.88e+00 (5.99e-01) -	6.27e+00 (6.01e+00) -	5.44e+00 (5.50e+00) -
WCCI20-MaTSO10-T32	2.43e+02 (4.95e+01)	5.51e+02 (1.10e+02) -	3.23e+02 (4.15e+01) -	3.39e+02 (5.15e+01) -	3.45e+02 (6.70e+01) -	3.26e+02 (4.54e+01) -
WCCI20-MaTSO10-T33	5.00e-02 (1.44e-02)	3.58e-01 (6.54e-02) -	2.40e-01 (6.13e-02) -	3.86e-01 (7.22e-02) -	1.65e-01 (3.77e-02) -	1.66e-01 (3.93e-02) -
WCCI20-MaTSO10-T34	3.03e+01 (3.56e+00)	4.71e+01 (4.13e+00) -	4.06e+01 (4.87e+00) -	4.09e+01 (5.66e+00) -	3.98e+01 (3.87e+00) -	3.84e+01 (6.10e+00) -
WCCI20-MaTSO10-T35	4.52e+03 (1.68e+03)	5.34e+03 (9.58e+02) -	4.94e+03 (9.33e+02) =	5.15e+03 (6.82e+02) =	4.83e+03 (6.50e+02) =	5.19e+03 (1.17e+03) =
WCCI20-MaTSO10-T36	2.45e+00 (5.12e-01)	1.69e+01 (6.49e+00) -	3.34e+00 (5.81e-01) -	4.41e+00 (2.23e+00) -	5.81e+00 (5.62e+00) -	4.40e+00 (3.98e+00) -
WCCI20-MaTSO10-T37	2.30e+02 (4.77e+01)	5.50e+02 (1.09e+02) -	3.28e+02 (5.30e+01) -	3.30e+02 (4.62e+01) -	3.40e+02 (7.13e+01) -	3.42e+02 (5.78e+01) -
WCCI20-MaTSO10-T38	4.41e-02 (1.35e-02)	3.39e-01 (6.22e-02) -	2.05e-01 (4.69e-02) -	3.68e-01 (6.60e-02) -	1.69e-01 (3.57e-02) -	1.82e-01 (4.27e-02) -
WCCI20-MaTSO10-T39	2.65e+01 (4.51e+00)	4.50e+01 (6.76e+00) -	4.02e+01 (3.19e+00) -	3.89e+01 (4.22e+00) -	3.99e+01 (4.32e+00) -	4.21e+01 (4.08e+00) -
WCCI20-MaTSO10-T40	4.91e+03 (8.87e+02)	6.03e+03 (1.41e+03) -	5.25e+03 (9.89e+02) =	5.51e+03 (1.17e+03) =	5.26e+03 (1.09e+03) =	5.27e+03 (9.10e+02) =
WCCI20-MaTSO10-T41	2.51e+00 (4.61e-01)	1.68e+01 (6.48e+00) -	3.11e+00 (3.96e-01) -	5.55e+00 (5.10e+00) -	6.25e+00 (6.45e+00) -	6.88e+00 (6.33e+00) -
WCCI20-MaTSO10-T42	2.12e+02 (4.10e+01)	5.40e+02 (1.05e+02) -	3.33e+02 (5.91e+01) -	3.54e+02 (7.00e+01) -	3.35e+02 (7.57e+01) -	3.24e+02 (6.08e+01) -
WCCI20-MaTSO10-T43	4.08e-02 (1.56e-02)	3.39e-01 (6.79e-02) -	2.25e-01 (3.61e-02) -	3.37e-01 (6.83e-02) -	1.66e-01 (3.14e-02) -	1.71e-01 (4.25e-02) -
WCCI20-MaTSO10-T44	2.96e+01 (3.25e+00)	4.81e+01 (4.43e+00) -	3.90e+01 (4.04e+00) -	3.97e+01 (3.66e+00) -	4.05e+01 (3.66e+00) -	4.16e+01 (4.12e+00) -
WCCI20-MaTSO10-T45	3.70e+03 (1.22e+03)	5.84e+03 (1.11e+03) -	5.56e+03 (9.31e+02) -	5.58e+03 (9.88e+02) -	5.65e+03 (1.11e+03) -	5.36e+03 (1.12e+03) -
WCCI20-MaTSO10-T46	2.57e+00 (5.17e-01)	1.39e+01 (7.64e+00) -	3.27e+00 (4.82e-01) -	3.67e+00 (3.33e-01) -	8.88e+00 (7.94e+00) -	6.03e+00 (5.51e+00) -
WCCI20-MaTSO10-T47	2.18e+02 (4.71e+01)	5.50e+02 (9.62e+01) -	3.31e+02 (8.86e+01) -	3.47e+02 (5.58e+01) -	3.31e+02 (6.58e+01) -	3.17e+02 (5.55e+01) -
WCCI20-MaTSO10-T48	3.57e-02 (1.12e-02)	3.58e-01 (5.08e-02) -	2.08e-01 (4.50e-02) -	3.44e-01 (4.89e-02) -	1.81e-01 (4.87e-02) -	1.66e-01 (3.67e-02) -
WCCI20-MaTSO10-T49	3.02e+01 (4.25e+00)	4.40e+01 (5.29e+00) -	3.94e+01 (3.69e+00) -	3.79e+01 (5.26e+00) -	3.89e+01 (4.85e+00) -	4.09e+01 (4.73e+00) -
WCCI20-MaTSO10-T50	3.03e+03 (1.50e+03)	4.68e+03 (1.13e+03) - 0/49/1	4.80e+03 (8.52e+02) - 0/45/5	4.80e+03 (1.16e+03) - 0/42/8	5.26e+03 (8.83e+02) - 0/44/6	4.68e+03 (8.20e+02) - 0/42/8
+/-/=	Base					

COMPARISON OF KR-MTGA, MATGA, MO-SBO, MO-MFEA, AND NSGA-II IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED FEVS OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN EACH MTO PROBLEM IN CEC17-MTMO. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA (CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 18 COMPONENT TASKS FROM ALL NINE MTO PROBLEMS IN CEC17-MTMO.

problem	KR-MTEA	MaTGA	MO-SBO	MO-MFEA	NSGA-II
CEC17-MTMO1-CI-HS-T1	5.1426e-03 (1.80e-04)	5.3695e-03 (3.52e-04) -	1.1803e+00 (2.41e-01) -	2.6443e-01 (6.29e-02) -	1.0258e+00 (1.78e-01) -
CEC17-MTMO1-CI-HS-T2	7.5766e-03 (6.47e-04)	2.7477e-02 (4.58e-03) -	1.2763e+00 (1.52e-01) -	5.1418e-01 (6.69e-02) -	6.7927e-01 (1.44e-01) -
CEC17-MTMO2-CI-MS-T1	4.6134e-03 (1.58e-04)	4.7108e-03 (3.54e-04) =	1.1801e-02 (7.01e-03) -	8.4098e-03 (3.22e-03) -	1.4783e-02 (8.65e-03) -
CEC17-MTMO2-CI-MS-T2	4.9553e-03 (2.29e-04)	6.3634e-03 (4.12e-03) -	2.6532e-02 (2.73e-02) -	1.3126e-02 (4.85e-03) -	7.9428e-01 (6.78e-01) -
CEC17-MTMO3-CI-LS-T1	5.3634e-03 (2.15e-04)	3.0319e-02 (1.03e-02) -	7.8570e-01 (4.08e-01) -	6.0865e-01 (5.77e-01) -	3.3683e+01 (4.84e+00) -
CEC17-MTMO3-CI-LS-T2	6.2394e-03 (3.56e-04)	5.3662e-03 (3.35e-04) +	1.2674e-02 (2.83e-03) -	1.2043e-02 (5.83e-03) -	6.4500e-02 (1.27e-01) -
CEC17-MTMO4-PI-HS-T1	5.0758e-03 (3.02e-04)	4.0610e-01 (1.33e-01) -	2.7473e+00 (5.42e-01) -	5.8156e-01 (1.74e-01) -	5.4064e-01 (1.31e-01) -
CEC17-MTMO4-PI-HS-T2	1.1817e+01 (1.79e+01)	5.7356e+01 (1.20e+01) -	8.2160e+01 (1.69e+01) -	3.6327e+01 (7.70e+00) -	4.2828e+01 (1.46e+01) -
CEC17-MTMO5-PI-MS-T1	2.0847e-02 (1.32e-02)	9.8299e-02 (5.13e-02) -	1.5192e+00 (2.75e-01) -	1.0967e+00 (2.32e-01) -	9.2740e-01 (1.77e-01) -
CEC17-MTMO5-PI-MS-T2	2.7084e+01 (2.77e+01)	3.3521e+02 (1.28e+02) -	1.2294e+03 (2.24e+02) -	1.1870e+03 (1.88e+02) -	1.5716e+03 (3.26e+02) -
CEC17-MTMO6-PI-LS-T1	5.6586e-03 (2.33e-03)	7.9360e-02 (1.45e-02) -	9.8707e-02 (2.22e-02) -	7.9939e-02 (1.12e-02) -	4.8947e-02 (1.32e-02) -
CEC17-MTMO6-PI-LS-T2	6.0058e+00 (9.40e+00)	6.7245e+00 (5.18e+00) -	4.3857e+00 (5.00e-01) +	3.4299e+00 (2.99e-01) +	2.0766e+01 (1.00e-01) -
CEC17-MTMO7-NI-HS-T1	4.6466e+01 (1.99e-01)	4.8407e+01 (5.01e-01) -	2.1412e+02 (3.31e+01) -	9.0400e+01 (1.01e+01) -	5.1183e+02 (5.57e+02) -
CEC17-MTMO7-NI-HS-T2	5.2740e-03 (2.67e-04)	1.0892e-02 (2.45e-03) -	1.5807e+00 (3.07e-01) -	3.0191e-01 (7.93e-02) -	3.3998e-01 (6.82e-02) -
CEC17-MTMO8-NI-MS-T1	1.6237e+01 (2.39e-01)	2.4752e+01 (2.01e+01) =	1.8004e+01 (1.34e+01) =	2.1148e+01 (1.81e+01) =	1.6847e+01 (1.62e+01) -
CEC17-MTMO8-NI-MS-T2	4.9586e-03 (2.60e-04)	3.9049e-01 (8.51e-01) -	3.2212e-01 (4.22e-01) -	4.5313e-01 (6.27e-01) -	1.8874e+00 (3.02e+00) -
CEC17-MTMO9-NI-LS-T1	7.7169e-01 (5.13e-01)	1.0607e+00 (2.01e-02) =	1.1121e+00 (3.05e-02) =	4.5573e-01 (1.80e-01) =	8.6812e-01 (2.30e-01) =
CEC17-MTMO9-NI-LS-T2	1.7257e+01 (7.44e+00)	2.0333e+01 (5.01e-02) -	2.0347e+01 (2.89e-02) -	2.0340e+01 (8.75e-03) -	2.0361e+01 (5.17e-02) -
+/-/=	Base	1/14/3	1/15/2	1/15/2	0/17/1

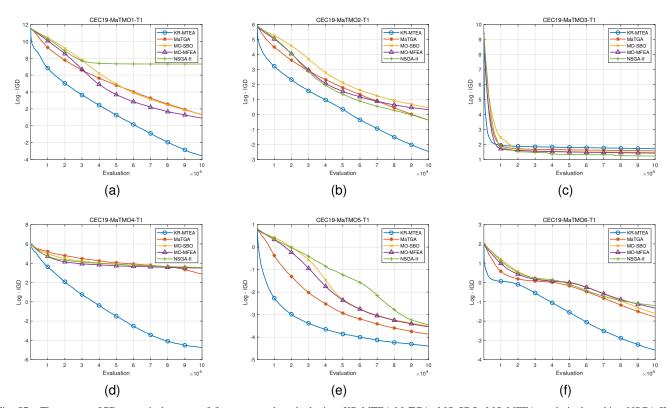


Fig. S7. The average IGD numerical curves of five compared methods, i.e., KR-MTEA,MaTGA, MO-SBO, MO-MFEA, and single-tasking NSGA-II on CEC19-MaTMO.

TABLE S41

COMPARISON OF KR-MTGA, MATGA, MO-SBO, MO-MFEA, AND NSGA-II IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED IGD OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATMO1 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATMO1 IN TEST SUITE 3.

Problem	KR-MTEA	MaTGA	MO-SBO	MO-MFEA	NSGA-II
CEC19-MaTMO1-T1	2.8384e-02 (8.21e-03)	3.6993e+00 (1.07e+00) -	3.8847e+00 (8.27e-01) -	2.4777e+00 (3.45e-01) -	1.5024e+03 (4.90e+03) -
CEC19-MaTMO1-T2	2.8595e-02 (9.77e-03)	4.1414e+00 (9.49e-01) -	9.3700e+00 (1.94e+00) -	2.3579e+00 (5.80e-01) -	5.0168e+02 (2.24e+03) -
CEC19-MaTMO1-T3	2.5011e-02 (7.01e-03)	4.0956e+00 (1.12e+00) -	1.0262e+01 (4.42e+00) -	2.2680e+00 (5.55e-01) -	1.1012e+00 (2.36e-01) -
CEC19-MaTMO1-T3	2.4154e-02 (7.80e-03)	3.9339e+00 (7.17e-01) -	8.3315e+00 (1.46e+00) -	2.5120e+00 (5.43e-01) -	1.0882e+00 (2.34e-01) -
CEC19-MaTMO1-T5	5.0086e+02 (2.24e+03)	3.9728e+00 (1.37e+00) +	9.4089e+00 (2.16e+00) +	2.1858e+00 (5.73e-01) +	1.0023e+03 (3.08e+03) -
CEC19-MaTMO1-T6	2.6766e-02 (5.41e-03)	3.9392e+00 (9.71e-01) -	8.5518e+00 (2.30e+00) -	2.2046e+00 (4.23e-01) -	1.0643e+00 (2.31e-01) -
CEC19-MaTMO1-T7	2.3461e-02 (6.39e-03)	3.8905e+00 (1.11e+00) -	1.0321e+01 (2.82e+00) -	2.3552e+00 (7.26e-01) -	1.0023e+03 (3.08e+03) -
CEC19-MaTMO1-T8	2.6192e-02 (6.22e-03)	4.2322e+00 (9.08e-01) -	9.4860e+00 (2.10e+00) -	2.3553e+00 (8.40e-01) -	1.5036e+03 (4.90e+03) -
CEC19-MaTMO1-T9	2.2821e-02 (5.79e-03)	3.8496e+00 (1.08e+00) -	9.0430e+00 (1.72e+00) -	2.3385e+00 (5.45e-01) -	1.2030e+00 (4.75e-01) -
CEC19-MaTMO1-T10	2.5847e-02 (8.24e-03)	3.7699e+00 (1.21e+00) -	9.3911e+00 (1.93e+00) -	2.4726e+00 (6.92e-01) -	2.0035e+03 (4.11e+03) -
CEC19-MaTMO1-T11	2.3636e-02 (7.33e-03)	3.9634e+00 (1.13e+00) -	9.3254e+00 (1.39e+00) -	2.2940e+00 (5.17e-01) -	5.0167e+02 (2.24e+03) -
CEC19-MaTMO1-T12	2.6387e-02 (7.62e-03)	4.1056e+00 (1.17e+00) -	9.9442e+00 (1.49e+00) -	2.3171e+00 (6.26e-01) -	5.0177e+02 (2.24e+03) -
CEC19-MaTMO1-T13	2.7637e-02 (1.02e-02)	4.0387e+00 (1.07e+00) -	9.0318e+00 (1.74e+00) -	2.4059e+00 (4.39e-01) -	5.0196e+02 (2.24e+03) -
CEC19-MaTMO1-T14	2.4281e-02 (6.95e-03)	3.6924e+00 (9.13e-01) -	9.6687e+00 (2.00e+00) -	2.3231e+00 (5.99e-01) -	5.0155e+02 (2.24e+03) -
CEC19-MaTMO1-T15	2.3675e-02 (4.59e-03)	3.8934e+00 (1.16e+00) -	1.0301e+01 (2.44e+00) -	2.2910e+00 (6.18e-01) -	5.0182e+02 (2.24e+03) -
CEC19-MaTMO1-T16	2.3309e-02 (8.26e-03)	4.0928e+00 (1.07e+00) -	9.9167e+00 (1.84e+00) -	2.2463e+00 (4.46e-01) -	1.0032e+03 (3.08e+03) -
CEC19-MaTMO1-T10	2.7257e-02 (7.44e-03)	3.8467e+00 (1.10e+00) -	1.0066e+01 (1.99e+00) -	2.5811e+00 (5.09e-01) -	1.7730e+00 (2.59e+00) -
CEC19-MaTMO1-T18	2.8805e-02 (7.02e-03)	4.0553e+00 (1.41e+00) -	1.0616e+01 (1.77e+00) -	2.3520e+00 (3.74e-01) -	2.0154e+00 (3.30e+00) -
CEC19-MaTMO1-T19	2.7499e-02 (7.28e-03)	4.2429e+00 (1.15e+00) -	1.0450e+01 (2.87e+00) -	2.3877e+00 (5.70e-01) -	5.0181e+02 (2.24e+03) -
CEC19-MaTMO1-T20	2.7028e-02 (6.76e-03)	3.8293e+00 (1.05e+00) -	9.3419e+00 (1.48e+00) -	2.3092e+00 (5.50e-01) -	2.0032e+03 (4.11e+03) -
CEC19-MaTMO1-T21	2.3246e-02 (6.16e-03)	3.8139e+00 (1.13e+00) -	9.3225e+00 (1.42e+00) -	2.1800e+00 (5.00e-01) -	1.0019e+03 (3.08e+03) -
CEC19-MaTMO1-T21	2.4581e-02 (6.15e-03)	4.1068e+00 (9.59e-01) -	9.9492e+00 (2.11e+00) -	2.0745e+00 (4.42e-01) -	1.0019c+03 (3.08c+03) -
CEC19-MaTMO1-T23	2.9477e-02 (9.31e-03)	4.3167e+00 (1.60e+00) -	9.3349e+00 (2.59e+00) -	2.4983e+00 (7.26e-01) -	1.5025e+03 (3.67e+03) -
CEC19-MaTMO1-T24	2.6979e-02 (8.85e-03)	4.4233e+00 (1.27e+00) -	8.8597e+00 (1.61e+00) -	2.3704e+00 (7.24e-01) -	1.5024e+03 (3.67e+03) -
CEC19-MaTMO1-T25	5.0032e+02 (2.24e+03)	4.0588e+00 (1.31e+00) +	9.1025e+00 (1.56e+00) +	2.3444e+00 (5.37e-01) +	2.0034e+03 (4.11e+03) -
CEC19-MaTMO1-T26	2.3124e-02 (4.40e-03)	4.1302e+00 (1.24e+00) -	9.1962e+00 (2.05e+00) -	2.4579e+00 (5.94e-01) -	1.0021e+03 (3.08e+03) -
CEC19-MaTMO1-T27	2.4971e-02 (7.69e-03)	4.2417e+00 (1.66e+00) -	9.8689e+00 (1.74e+00) -	2.5293e+00 (6.70e-01) -	1.5027e+03 (3.67e+03) -
CEC19-MaTMO1-T28	2.6022e-02 (7.58e-03)	3.7364e+00 (8.22e-01) -	9.6056e+00 (2.35e+00) -	2.5206e+00 (5.89e-01) -	5.0166e+02 (2.24e+03) -
CEC19-MaTMO1-T29	2.8403e-02 (1.29e-02)	3.7732e+00 (1.02e+00) -	8.5553e+00 (1.81e+00) -	2.4570e+00 (5.35e-01) -	1.5026e+03 (3.67e+03) -
CEC19-MaTMO1-T30	3.1840e-02 (8.02e-03)	3.3729e+00 (1.02e+00) -	1.0116e+01 (2.59e+00) -	2.3268e+00 (5.58e-01) -	5.0243e+02 (2.24e+03) -
CEC19-MaTMO1-T31	2.3160e-02 (6.14e-03)	3.7262e+00 (1.05e+00) -	9.7563e+00 (2.10e+00) -	2.3535e+00 (4.29e-01) -	5.0164e+02 (2.24e+03) -
CEC19-MaTMO1-T31	2.9423e-02 (6.88e-03)	3.9586e+00 (1.69e+00) -	9.6575e+00 (2.34e+00) -	2.3074e+00 (5.30e-01) -	1.0022e+03 (3.08e+03) -
CEC19-MaTMO1-T33	2.8766e-02 (7.51e-03)	3.9205e+00 (1.40e+00) -	1.0544e+01 (2.04e+00) -	2.2496e+00 (4.34e-01) -	5.0271e+02 (2.24e+03) -
CEC19-MaTMO1-T34	2.5444e-02 (6.67e-03)	3.9266e+00 (9.96e-01) -	1.0035e+01 (1.70e+00) -	2.4734e+00 (5.66e-01) -	1.5025e+03 (3.67e+03) -
CEC19-MaTMO1-T35	3.0876e-02 (1.06e-02)	3.9210e+00 (1.39e+00) -	9.8259e+00 (2.31e+00) -	2.4395e+00 (5.00e-01) -	1.0024e+03 (3.08e+03) -
CEC19-MaTMO1-T36	2.5092e-02 (6.34e-03)	3.8369e+00 (9.94e-01) -	9.9391e+00 (1.34e+00) -	2.5659e+00 (4.09e-01) -	1.0039e+03 (3.08e+03) -
CEC19-MaTMO1-T37	2.7211e-02 (7.29e-03)	3.7271e+00 (1.15e+00) -	9.0784e+00 (1.87e+00) -	2.4875e+00 (5.47e-01) -	1.0021e+03 (3.08e+03) -
CEC19-MaTMO1-T38	2.6794e-02 (9.35e-03)	3.9071e+00 (1.21e+00) -	9.0372e+00 (2.31e+00) -	2.2184e+00 (4.19e-01) -	5.0143e+02 (2.24e+03) -
CEC19-MaTMO1-T39	2.6421e-02 (6.02e-03)	3.9244e+00 (1.33e+00) -	9.5736e+00 (2.31e+00) -	2.3334e+00 (4.92e-01) -	1.0026e+03 (3.08e+03) -
CEC19-MaTMO1-T40	2.6790e-02 (8.65e-03)	4.0120e+00 (1.01e+00) -	9.3021e+00 (1.36e+00) -	2.4499e+00 (4.01e-01) -	2.0033e+03 (4.11e+03) -
CEC19-MaTMO1-T41	2.5137e-02 (8.18e-03)	3.8673e+00 (7.29e-01) -	9.8512e+00 (2.33e+00) -	2.3328e+00 (5.19e-01) -	5.0180e+02 (2.24e+03) -
CEC19-MaTMO1-T41	2.9990e-02 (7.58e-03)	4.0350e+00 (1.44e+00) -	9.9565e+00 (2.68e+00) -	2.2000e+00 (5.28e-01) -	1.0020e+03 (3.08e+03) -
CEC19-MaTMO1-T42	2.7105e-02 (6.83e-03)	3.7087e+00 (7.91e-01) -	9.4341e+00 (1.60e+00) -	2.4691e+00 (4.98e-01) -	5.0325e+02 (2.24e+03) -
CEC19-MaTMO1-T43	2.7103e-02 (0.83e-03) 2.7073e-02 (7.92e-03)	3.7215e+00 (8.95e-01) -	9.8694e+00 (2.27e+00) -	2.3177e+00 (4.98e-01) -	1.5032e+03 (3.67e+03) -
CEC19-MaTMO1-T45	2.5424e-02 (5.16e-03)	3.9663e+00 (7.54e-01) -	1.0198e+01 (1.29e+00) -	2.517/e+00 (0.43e-01) -	1.0023e+03 (3.08e+03) -
CEC19-MaTMO1-T46	2.8368e-02 (6.46e-03)	4.0343e+00 (1.15e+00) -	1.0374e+01 (1.97e+00) -	2.2547e+00 (3.93e-01) -	1.2031e+00 (2.81e-01) -
CEC19-MaTMO1-T47	2.5280e-02 (5.34e-03)	4.1711e+00 (1.06e+00) -	9.5208e+00 (2.33e+00) -	2.3783e+00 (5.64e-01) -	2.8352e+00 (7.58e+00) -
CEC19-MaTMO1-T48	2.7180e-02 (9.04e-03)	3.8343e+00 (8.89e-01) -	8.9385e+00 (2.53e+00) -	2.2782e+00 (3.04e-01) -	5.0175e+02 (2.24e+03) -
CEC19-MaTMO1-T49	2.7130e-02 (9.04e-03) 2.7130e-02 (8.38e-03)	4.3986e+00 (1.05e+00) -	9.1124e+00 (1.68e+00) -	2.5456e+00 (4.99e-01) -	1.0027e+03 (3.08e+03) -
CEC19-MaTMO1-T50	2.6580e-02 (6.64e-03)	4.1544e+00 (1.02e+00) -	1.0602e+01 (1.91e+00) -	2.3537e+00 (4.67e-01) -	1.5095e+03 (3.66e+03) -
+/-/=	Base	2/48/0	2/48/0	2/48/0	0/50/0
T/-/-	Dasc	2/40/0	2/40/0	2/40/0	0/30/0

TABLE S42

COMPARISON OF KR-MTGA, MATGA, MO-SBO, MO-MFEA, AND NSGA-II IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED IGD OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATMO2 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATMO2 IN TEST SUITE 3.

Problem	KR-MTEA	MaTGA	MO-SBO	MO-MFEA	NSGA-II
CEC19-MaTMO2-T1	8.4680e-02 (1.86e-02)	6.8392e-01 (9.91e-02) -	1.5726e+00 (2.15e-01) -	1.3662e+00 (2.85e-01) -	6.9213e-01 (1.31e-01) -
CEC19-MaTMO2-T2	7.0140e-02 (1.69e-02)	6.5983e-01 (1.00e-01) -	2.3949e+00 (2.77e-01) -	1.3337e+00 (2.56e-01) -	7.1773e-01 (1.55e-01) -
CEC19-MaTMO2-T3	8.0716e-02 (1.34e-02)	6.4168e-01 (1.05e-01) -	2.4136e+00 (2.71e-01) -	1.2724e+00 (2.44e-01) -	6.9457e-01 (1.93e-01) -
CEC19-MaTMO2-T4	7.5495e-02 (1.40e-02)	7.0361e-01 (1.10e-01) -	2.4604e+00 (2.04e-01) -	1.3612e+00 (3.05e-01) -	7.2390e-01 (1.46e-01) -
CEC19-MaTMO2-T5	6.9667e-02 (1.53e-02)	6.6207e-01 (1.07e-01) -	2.3759e+00 (2.97e-01) -	1.3412e+00 (2.86e-01) -	7.1708e-01 (1.35e-01) -
CEC19-MaTMO2-T6	9.2071e-02 (1.44e-02)	7.1722e-01 (1.25e-01) -	2.3568e+00 (2.89e-01) -	1.3170e+00 (2.88e-01) -	6.8306e-01 (1.35e-01) -
CEC19-MaTMO2-T7	8.6763e-02 (1.90e-02)	6.7980e-01 (1.06e-01) -	2.3578e+00 (2.61e-01) -	1.3214e+00 (2.79e-01) -	7.0957e-01 (1.51e-01) -
CEC19-MaTMO2-T8	9.5320e-02 (1.96e-02)	7.0366e-01 (8.11e-02) -	2.3470e+00 (2.48e-01) -	1.3187e+00 (2.77e-01) -	6.7249e-01 (1.19e-01) -
CEC19-MaTMO2-T9	7.8626e-02 (1.91e-02)	6.2289e-01 (1.09e-01) -	2.3106e+00 (2.93e-01) -	1.2978e+00 (2.67e-01) -	7.0322e-01 (1.20e-01) -
CEC19-MaTMO2-T10	9.3036e-02 (2.02e-02)	7.0898e-01 (1.15e-01) -	2.3904e+00 (2.45e-01) -	1.2969e+00 (2.36e-01) -	7.2645e-01 (1.21e-01) -
CEC19-MaTMO2-T11	8.4702e-02 (1.52e-02)	7.3216e-01 (1.32e-01) -	2.3711e+00 (2.92e-01) -	1.3274e+00 (2.62e-01) -	6.5784e-01 (1.31e-01) -
CEC19-MaTMO2-T12	7.2717e-02 (1.70e-02)	6.6788e-01 (1.12e-01) -	2.4838e+00 (2.47e-01) -	1.4089e+00 (3.03e-01) -	6.4216e-01 (8.14e-02) -
CEC19-MaTMO2-T13	7.4471e-02 (1.55e-02)	7.1367e-01 (1.08e-01) -	2.3768e+00 (4.20e-01) -	1.3264e+00 (2.40e-01) -	7.5311e-01 (1.37e-01) -
CEC19-MaTMO2-T14	7.8549e-02 (1.52e-02)	7.4348e-01 (1.27e-01) -	2.3977e+00 (2.51e-01) -	1.3244e+00 (2.21e-01) -	6.8055e-01 (1.34e-01) -
CEC19-MaTMO2-T15	8.0323e-02 (1.13e-02)	6.5220e-01 (8.65e-02) -	2.3863e+00 (2.70e-01) -	1.3554e+00 (2.14e-01) -	7.0747e-01 (1.35e-01) -
CEC19-MaTMO2-T16	9.4552e-02 (1.57e-02)	6.8394e-01 (7.50e-02) -	2.4067e+00 (2.58e-01) -	1.3318e+00 (2.51e-01) -	6.8106e-01 (1.32e-01) -
CEC19-MaTMO2-T17	7.4952e-02 (1.60e-02)	7.0108e-01 (1.13e-01) -	2.4512e+00 (3.20e-01) -	1.2932e+00 (2.62e-01) -	6.9362e-01 (1.02e-01) -
CEC19-MaTMO2-T18	7.5232e-02 (1.34e-02)	6.6043e-01 (1.16e-01) -	2.4730e+00 (2.32e-01) -	1.3350e+00 (2.14e-01) -	6.9105e-01 (1.49e-01) -
CEC19-MaTMO2-T19	8.4952e-02 (1.46e-02)	6.9960e-01 (1.05e-01) -	2.3227e+00 (2.31e-01) -	1.3031e+00 (2.13e-01) -	6.8533e-01 (1.42e-01) -
CEC19-MaTMO2-T20	8.0195e-02 (1.20e-02)	6.6414e-01 (1.52e-01) -	2.5345e+00 (2.43e-01) -	1.2774e+00 (2.19e-01) -	7.1482e-01 (1.75e-01) -
CEC19-MaTMO2-T21	8.8335e-02 (1.89e-02)	7.2988e-01 (1.24e-01) -	2.2640e+00 (3.00e-01) -	1.3325e+00 (2.44e-01) -	7.2373e-01 (1.62e-01) -
CEC19-MaTMO2-T22	9.2344e-02 (1.55e-02)	6.8471e-01 (1.16e-01) -	2.2955e+00 (2.05e-01) -	1.3089e+00 (2.55e-01) -	6.4897e-01 (1.40e-01) -
CEC19-MaTMO2-T23	8.1955e-02 (1.27e-02)	6.7110e-01 (1.15e-01) -	2.3062e+00 (2.83e-01) -	1.3799e+00 (2.38e-01) -	7.8378e-01 (1.52e-01) -
CEC19-MaTMO2-T24	8.5864e-02 (1.54e-02)	7.1302e-01 (1.13e-01) -	2.4488e+00 (2.50e-01) -	1.4033e+00 (3.00e-01) -	6.6980e-01 (1.21e-01) -
CEC19-MaTMO2-T25	8.7906e-02 (1.57e-02)	6.7664e-01 (1.42e-01) -	2.4325e+00 (1.86e-01) -	1.3002e+00 (2.16e-01) -	6.7480e-01 (1.06e-01) -
CEC19-MaTMO2-T26	8.8049e-02 (1.60e-02)	7.0457e-01 (1.02e-01) -	2.4581e+00 (2.42e-01) -	1.2848e+00 (2.42e-01) -	6.9336e-01 (1.47e-01) -
CEC19-MaTMO2-T27	8.5900e-02 (1.45e-02)	6.5300e-01 (1.03e-01) -	2.3939e+00 (2.38e-01) -	1.2612e+00 (2.57e-01) -	7.4086e-01 (1.82e-01) -
CEC19-MaTMO2-T28	7.6194e-02 (1.10e-02)	6.2594e-01 (1.00e-01) -	2.3514e+00 (2.68e-01) -	1.3427e+00 (2.79e-01) -	6.9723e-01 (1.16e-01) -
CEC19-MaTMO2-T29	7.0963e-02 (1.50e-02)	6.7102e-01 (8.88e-02) -	2.3781e+00 (2.32e-01) -	1.3037e+00 (3.13e-01) -	6.7010e-01 (1.24e-01) -
CEC19-MaTMO2-T30	7.9108e-02 (1.26e-02)	7.1126e-01 (1.21e-01) -	2.3104e+00 (2.54e-01) -	1.3108e+00 (2.41e-01) -	7.2555e-01 (1.38e-01) -
CEC19-MaTMO2-T31	8.2314e-02 (1.62e-02)	6.4830e-01 (1.08e-01) -	2.4136e+00 (2.27e-01) -	1.2921e+00 (2.04e-01) -	6.7025e-01 (1.65e-01) -
CEC19-MaTMO2-T32	7.6704e-02 (1.72e-02)	7.3579e-01 (1.38e-01) -	2.3828e+00 (2.72e-01) -	1.3262e+00 (1.92e-01) -	7.1452e-01 (1.26e-01) -
CEC19-MaTMO2-T33	8.8396e-02 (1.86e-02)	6.4983e-01 (9.91e-02) -	2.3388e+00 (2.49e-01) -	1.2878e+00 (1.97e-01) -	7.2361e-01 (1.24e-01) -
CEC19-MaTMO2-T34	8.7410e-02 (2.32e-02)	6.4357e-01 (8.93e-02) -	2.3135e+00 (2.39e-01) -	1.2572e+00 (2.33e-01) -	7.1098e-01 (1.40e-01) -
CEC19-MaTMO2-T35	7.6299e-02 (1.17e-02)	6.6020e-01 (9.47e-02) -	2.4683e+00 (2.59e-01) -	1.4308e+00 (2.25e-01) -	6.1845e-01 (8.88e-02) -
CEC19-MaTMO2-T36	7.8414e-02 (1.17e-02)	6.6198e-01 (1.36e-01) -	2.4676e+00 (2.53e-01) -	1.3401e+00 (2.12e-01) -	7.1650e-01 (1.81e-01) -
CEC19-MaTMO2-T37	7.8458e-02 (1.58e-02)	6.2305e-01 (1.07e-01) -	2.4937e+00 (3.20e-01) -	1.3956e+00 (2.76e-01) -	6.6723e-01 (1.31e-01) -
CEC19-MaTMO2-T38	9.2444e-02 (1.81e-02)	7.0518e-01 (1.39e-01) -	2.4939e+00 (3.82e-01) -	1.2755e+00 (2.21e-01) -	7.4891e-01 (1.26e-01) -
CEC19-MaTMO2-T39	7.2165e-02 (1.68e-02)	6.2751e-01 (7.38e-02) -	2.3651e+00 (2.33e-01) -	1.2811e+00 (2.15e-01) -	6.7542e-01 (1.35e-01) -
CEC19-MaTMO2-T40	7.6639e-02 (1.24e-02)	6.6253e-01 (1.16e-01) -	2.4580e+00 (1.91e-01) -	1.3457e+00 (2.73e-01) -	6.9407e-01 (1.26e-01) -
CEC19-MaTMO2-T41	7.1802e-02 (1.07e-02)	6.3678e-01 (1.01e-01) -	2.4631e+00 (2.26e-01) -	1.3478e+00 (2.20e-01) -	6.3960e-01 (8.92e-02) -
CEC19-MaTMO2-T42	8.3939e-02 (1.87e-02)	6.3524e-01 (9.89e-02) -	2.3883e+00 (2.92e-01) -	1.3271e+00 (2.77e-01) -	7.5801e-01 (1.76e-01) -
CEC19-MaTMO2-T43	7.8847e-02 (1.52e-02)	6.6058e-01 (9.55e-02) -	2.4819e+00 (3.58e-01) -	1.3128e+00 (2.49e-01) -	7.1665e-01 (1.49e-01) -
CEC19-MaTMO2-T44	7.4419e-02 (1.11e-02)	6.9665e-01 (1.16e-01) -	2.2963e+00 (2.12e-01) -	1.3784e+00 (1.95e-01) -	7.5617e-01 (1.83e-01) -
CEC19-MaTMO2-T45	7.4677e-02 (1.56e-02)	6.7010e-01 (1.11e-01) -	2.3728e+00 (2.21e-01) -	1.5188e+00 (2.76e-01) -	6.8263e-01 (1.20e-01) -
CEC19-MaTMO2-T46	6.9585e-02 (1.38e-02)	6.4028e-01 (8.38e-02) -	2.2861e+00 (2.40e-01) -	1.2685e+00 (1.83e-01) -	7.0807e-01 (1.25e-01) -
CEC19-MaTMO2-T47	7.8031e-02 (1.31e-02)	6.4265e-01 (7.37e-02) -	2.3494e+00 (2.63e-01) -	1.3360e+00 (3.50e-01) -	6.5871e-01 (1.16e-01) -
CEC19-MaTMO2-T48	8.4039e-02 (1.73e-02)	6.7933e-01 (1.28e-01) -	2.3733e+00 (2.93e-01) -	1.3903e+00 (2.47e-01) -	6.8519e-01 (1.24e-01) -
CEC19-MaTMO2-T49	9.0825e-02 (2.39e-02)	6.8236e-01 (1.19e-01) -	2.3613e+00 (2.90e-01) -	1.3621e+00 (2.28e-01) -	7.1504e-01 (1.85e-01) -
CEC19-MaTMO2-T50	8.6437e-02 (1.73e-02)	6.8510e-01 (1.30e-01) -	2.4549e+00 (2.82e-01) -	1.3518e+00 (2.89e-01) -	6.8989e-01 (1.29e-01) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0
., ,,=	Dusc	0,30,0	0,50,0	1 0,50,0	1 0,50,0

TABLE S43

COMPARISON OF KR-MTGA, MATGA, MO-SBO, MO-MFEA, AND NSGA-II IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED IGD OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATMO3 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATMO3 IN TEST SUITE 3.

	****	) ( ma :	140 600	160.1677	11001 11
Problem	KR-MTEA	MaTGA	MO-SBO	MO-MFEA	NSGA-II
CEC19-MaTMO3-T1	5.5653e+00 (3.27e-01)	4.8205e+00 (1.54e+00) =	4.3632e+00 (1.88e+00) =	4.1577e+00 (1.97e+00) +	3.4313e+00 (2.44e+00) +
CEC19-MaTMO3-T2	5.3529e+00 (9.33e-01)	5.0962e+00 (1.21e+00) =	3.9973e+00 (2.12e+00) =	3.2795e+00 (1.81e+00) +	4.1431e+00 (2.26e+00) =
CEC19-MaTMO3-T3	5.6066e+00 (2.51e-01)	5.3036e+00 (1.10e+00) =	4.6915e+00 (1.73e+00) =	4.0963e+00 (1.93e+00) +	4.5099e+00 (1.83e+00) =
CEC19-MaTMO3-T4	5.5403e+00 (2.09e-01)	5.0658e+00 (1.35e+00) =	4.2084e+00 (2.02e+00) =	3.6367e+00 (1.84e+00) +	4.3849e+00 (1.87e+00) =
CEC19-MaTMO3-T5	4.9298e+00 (2.36e-01)	5.5768e+00 (6.42e-01) -	4.0802e+00 (2.23e+00) =	4.8608e+00 (1.73e+00) +	4.3024e+00 (2.27e+00) =
CEC19-MaTMO3-T6	5.6121e+00 (2.78e-01)	4.3751e+00 (1.66e+00) +	3.7803e+00 (2.56e+00) =	4.2326e+00 (2.03e+00) +	4.2244e+00 (2.24e+00) =
CEC19-MaTMO3-T7	5.2726e+00 (3.35e-01)	5.0175e+00 (1.12e+00) =	4.0255e+00 (1.99e+00) =	3.9065e+00 (1.87e+00) +	2.9877e+00 (2.45e+00) +
CEC19-MaTMO3-T8	5.4445e+00 (3.65e-01)	5.2611e+00 (1.12e+00) =	3.9089e+00 (2.39e+00) =	4.2722e+00 (1.80e+00) =	4.1764e+00 (2.16e+00) =
CEC19-MaTMO3-T9	5.6278e+00 (3.08e-01)	5.2349e+00 (9.68e-01) =	4.6842e+00 (2.04e+00) =	4.1770e+00 (2.00e+00) +	3.8694e+00 (2.01e+00) +
CEC19-MaTMO3-T10	5.5101e+00 (4.90e-01)	5.0670e+00 (1.29e+00) =	4.3058e+00 (2.06e+00) =	4.4741e+00 (1.57e+00) +	4.5023e+00 (1.52e+00) =
CEC19-MaTMO3-T11	5.4991e+00 (3.28e-01)	4.9360e+00 (1.34e+00) =	4.3928e+00 (2.45e+00) =	4.3405e+00 (1.91e+00) =	4.4249e+00 (1.90e+00) =
CEC19-MaTMO3-T12	5.5729e+00 (2.42e-01)	5.4565e+00 (6.20e-01) =	4.8406e+00 (1.89e+00) =	4.5728e+00 (1.34e+00) +	5.0205e+00 (1.43e+00) =
CEC19-MaTMO3-T13	5.4222e+00 (1.87e-01)	5.2358e+00 (9.44e-01) =	3.9656e+00 (2.26e+00) =	5.2078e+00 (6.42e-01) =	2.6378e+00 (2.43e+00) +
CEC19-MaTMO3-T14	5.6174e+00 (2.25e-01)	5.4898e+00 (8.27e-01) =	4.0111e+00 (2.02e+00) +	4.0787e+00 (1.83e+00) +	3.6610e+00 (2.47e+00) =
CEC19-MaTMO3-T15	5.2499e+00 (7.63e-01)	5.0910e+00 (1.34e+00) =	4.1661e+00 (2.29e+00) =	4.1795e+00 (1.95e+00) =	4.4989e+00 (1.84e+00) =
CEC19-MaTMO3-T16	5.5473e+00 (1.76e-01)	5.1527e+00 (1.34e+00) =	3.6521e+00 (2.53e+00) =	2.6276e+00 (2.14e+00) +	4.6309e+00 (1.89e+00) =
CEC19-MaTMO3-T17	5.5877e+00 (2.31e-01)	5.3513e+00 (7.02e-01) =	4.5268e+00 (2.27e+00) =	4.3764e+00 (1.88e+00) +	3.9011e+00 (2.06e+00) +
CEC19-MaTMO3-T18	5.3711e+00 (2.57e-01)	5.4104e+00 (7.59e-01) =	3.8513e+00 (1.98e+00) +	2.9218e+00 (2.21e+00) +	2.4669e+00 (1.97e+00) +
CEC19-MaTMO3-T19	4.9801e+00 (1.07e+00)	5.1101e+00 (1.23e+00) =	4.0949e+00 (1.87e+00) =	3.5350e+00 (1.98e+00) +	3.8024e+00 (1.98e+00) =
CEC19-MaTMO3-T20	5.6553e+00 (1.64e-01)	4.8593e+00 (1.36e+00) =	4.6563e+00 (1.80e+00) =	3.8045e+00 (1.79e+00) +	4.0714e+00 (2.14e+00) =
CEC19-MaTMO3-T21	5.5369e+00 (4.19e-01)	5.4628e+00 (7.90e-01) =	4.7985e+00 (2.05e+00) =	3.6919e+00 (1.83e+00) +	3.7943e+00 (2.13e+00) +
CEC19-MaTMO3-T22	5.6875e+00 (2.54e-01)	4.8156e+00 (1.64e+00) =	3.6834e+00 (2.10e+00) +	3.1051e+00 (2.16e+00) +	3.8674e+00 (2.42e+00) =
CEC19-MaTMO3-T23	5.0837e+00 (1.83e-01)	4.8564e+00 (1.30e+00) =	4.6815e+00 (2.15e+00) =	4.0357e+00 (2.13e+00) =	3.8197e+00 (2.14e+00) =
CEC19-MaTMO3-T24	5.2069e+00 (3.63e-01)	5.1427e+00 (1.40e+00) =	3.7983e+00 (2.05e+00) +	4.0502e+00 (2.16e+00) =	3.9043e+00 (2.25e+00) =
CEC19-MaTMO3-T25	5.3811e+00 (1.12e+00)	5.1084e+00 (9.43e-01) =	3.6120e+00 (2.55e+00) =	4.3115e+00 (1.68e+00) +	3.1699e+00 (2.33e+00) +
CEC19-MaTMO3-T26	5.4657e+00 (2.27e-01)	4.6612e+00 (1.75e+00) =	3.9313e+00 (2.03e+00) =	4.7850e+00 (1.42e+00) =	4.3070e+00 (2.29e+00) =
CEC19-MaTMO3-T27	5.6370e+00 (2.27e-01)	4.9888e+00 (1.47e+00) =	4.3658e+00 (2.39e+00) =	4.6772e+00 (1.70e+00) =	3.8963e+00 (2.16e+00) +
CEC19-MaTMO3-T28	5.5822e+00 (2.01e-01)	5.5203e+00 (5.25e-01) =	5.3817e+00 (1.35e+00) =	4.6776e+00 (1.49e+00) +	4.2714e+00 (2.34e+00) =
CEC19-MaTMO3-T29	5.4991e+00 (5.63e-01)	5.5693e+00 (6.15e-01) =	4.9882e+00 (1.64e+00) =	3.6971e+00 (2.02e+00) +	4.3358e+00 (1.99e+00) =
CEC19-MaTMO3-T30	5.7371e+00 (1.62e-01)	5.2700e+00 (9.63e-01) =	4.5211e+00 (1.94e+00) =	3.4426e+00 (2.34e+00) +	3.5502e+00 (1.49e+00) +
CEC19-MaTMO3-T31	5.3420e+00 (6.47e-01)	4.9799e+00 (1.28e+00) =	5.1863e+00 (1.61e+00) =	4.3454e+00 (1.33e+00) +	4.6545e+00 (1.87e+00) =
CEC19-MaTMO3-T31	5.7857e+00 (2.03e-01)	5.3798e+00 (5.61e-01) +	4.2663e+00 (1.65e+00) +	3.4586e+00 (2.21e+00) +	3.6587e+00 (2.25e+00) +
CEC19-MaTMO3-T32	5.2822e+00 (3.58e-01)	5.1228e+00 (1.28e+00) =	4.5940e+00 (2.10e+00) =	4.9825e+00 (1.28e+00) =	3.9588e+00 (2.03e+00) =
CEC19-MaTMO3-T34	4.2342e+00 (3.38e-01) 4.2342e+00 (1.00e+00)	4.7675e+00 (1.47e+00) -	4.2258e+00 (2.10e+00) =	3.0694e+00 (1.76e+00) =	3.3872e+00 (2.33e+00) =
CEC19-MaTMO3-T35	5.3610e+00 (2.13e-01)	5.0799e+00 (9.82e-01) =	4.2077e+00 (1.79e+00) =	2.5860e+00 (2.46e+00) +	4.1583e+00 (2.31e+00) =
	, ,	,	` /	` /	. ,
CEC19-MaTMO3-T36 CEC19-MaTMO3-T37	5.5157e+00 (4.77e-01)	4.8823e+00 (1.62e+00) =	4.6980e+00 (2.02e+00) = 3.0025e+00 (2.30e+00) +	4.6396e+00 (1.67e+00) + 3.3945e+00 (2.07e+00) +	3.7972e+00 (2.44e+00) =
	5.5932e+00 (4.75e-01)	4.3827e+00 (1.52e+00) +	. ,	` /	4.3335e+00 (2.11e+00) =
CEC19-MaTMO3-T38	5.5940e+00 (2.61e-01)	5.4135e+00 (9.07e-01) =	3.9320e+00 (2.30e+00) +	3.7790e+00 (2.13e+00) +	3.3003e+00 (2.32e+00) +
CEC19-MaTMO3-T39	5.4753e+00 (3.13e-01)	4.5353e+00 (1.88e+00) =	3.1603e+00 (2.40e+00) +	2.2356e+00 (2.35e+00) +	4.1767e+00 (1.97e+00) =
CEC19-MaTMO3-T40	4.9989e+00 (4.83e-01)	5.4720e+00 (5.50e-01) -	4.7190e+00 (2.10e+00) =	4.9353e+00 (1.33e+00) +	2.8899e+00 (2.27e+00) +
CEC19-MaTMO3-T41	5.6377e+00 (2.72e-01)	5.2085e+00 (9.04e-01) =	4.5779e+00 (2.08e+00) =	3.3523e+00 (2.67e+00) +	3.3599e+00 (2.36e+00) +
CEC19-MaTMO3-T42	5.5670e+00 (1.97e-01)	4.8210e+00 (1.58e+00) =	4.0963e+00 (2.34e+00) =	4.3453e+00 (2.08e+00) =	2.7339e+00 (2.41e+00) +
CEC19-MaTMO3-T43	5.0073e+00 (1.06e+00)	5.4678e+00 (8.11e-01) =	4.5116e+00 (1.67e+00) =	3.2119e+00 (1.66e+00) +	3.4110e+00 (2.36e+00) =
CEC19-MaTMO3-T44	5.5401e+00 (4.83e-01)	5.2793e+00 (7.12e-01) =	4.1611e+00 (2.20e+00) =	4.3186e+00 (1.72e+00) +	3.3512e+00 (2.65e+00) +
CEC19-MaTMO3-T45	5.2779e+00 (1.80e-01)	5.0603e+00 (1.27e+00) =	4.4837e+00 (2.00e+00) =	4.0237e+00 (2.07e+00) =	3.5308e+00 (2.53e+00) =
CEC19-MaTMO3-T46	5.0527e+00 (5.75e-01)	5.1132e+00 (1.37e+00) =	4.1735e+00 (2.43e+00) =	3.8036e+00 (1.80e+00) +	3.6597e+00 (2.29e+00) =
CEC19-MaTMO3-T47	5.6594e+00 (2.89e-01)	5.3082e+00 (1.18e+00) =	4.0367e+00 (2.24e+00) =	4.8136e+00 (1.01e+00) +	3.8346e+00 (2.26e+00) +
CEC19-MaTMO3-T48	5.2814e+00 (3.10e-01)	5.4081e+00 (6.62e-01) =	4.1263e+00 (1.92e+00) =	2.6831e+00 (2.18e+00) +	3.7675e+00 (2.13e+00) =
CEC19-MaTMO3-T49	4.4425e+00 (1.05e+00)	5.1360e+00 (1.62e+00) -	4.4683e+00 (2.30e+00) =	4.0775e+00 (1.97e+00) =	4.2970e+00 (2.33e+00) =
CEC19-MaTMO3-T50	5.5518e+00 (4.26e-01)	4.9621e+00 (1.23e+00) =	3.9420e+00 (2.31e+00) =	4.6182e+00 (1.87e+00) =	4.7929e+00 (1.84e+00) =
+/-/=	Base	3/4/43	8/0/42	36/0/14	17/0/33

TABLE S44

COMPARISON OF KR-MTGA, MATGA, MO-SBO, MO-MFEA, AND NSGA-II IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED IGD OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATMO4 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATMO4 IN TEST SUITE 3.

	TVD 1 (MV)	1. mg.	160 600	160.1600	N00 + 11
Problem	KR-MTEA	MaTGA	MO-SBO	MO-MFEA	NSGA-II
CEC19-MaTMO4-T1	8.7041e-03 (9.63e-04)	1.7851e+01 (4.93e+00) -	3.5337e+01 (4.43e+00) -	3.3184e+01 (4.19e+00) -	3.4667e+01 (4.47e+00) -
CEC19-MaTMO4-T2	1.3111e-02 (1.88e-02)	1.6078e+01 (5.33e+00) -	4.1598e+01 (4.78e+00) -	3.2964e+01 (4.06e+00) -	3.4040e+01 (3.55e+00) -
CEC19-MaTMO4-T3	1.2231e-02 (1.53e-02)	1.6189e+01 (5.18e+00) -	4.3796e+01 (6.51e+00) -	3.3658e+01 (3.92e+00) -	3.4114e+01 (5.12e+00) -
CEC19-MaTMO4-T4	8.1640e-02 (3.24e-01)	1.6873e+01 (6.51e+00) -	4.0903e+01 (5.57e+00) -	3.3659e+01 (3.35e+00) -	3.2716e+01 (4.08e+00) -
CEC19-MaTMO4-T5	1.0173e-02 (5.41e-03)	1.6209e+01 (5.92e+00) -	4.0238e+01 (5.25e+00) -	3.3257e+01 (5.42e+00) -	3.3520e+01 (5.80e+00) -
CEC19-MaTMO4-T6	1.0271e-02 (4.97e-03)	1.9305e+01 (7.69e+00) -	4.1009e+01 (4.97e+00) -	3.3819e+01 (3.33e+00) -	3.6098e+01 (4.97e+00) -
CEC19-MaTMO4-T7	1.2596e-02 (1.60e-02)	2.0653e+01 (7.64e+00) -	4.2264e+01 (4.66e+00) -	3.4547e+01 (3.75e+00) -	3.4848e+01 (6.02e+00) -
CEC19-MaTMO4-T8	1.0371e-02 (5.70e-03)	1.7224e+01 (7.12e+00) -	4.1707e+01 (4.20e+00) -	3.3891e+01 (2.90e+00) -	3.4041e+01 (4.57e+00) -
CEC19-MaTMO4-T9	1.0665e-02 (9.92e-03)	1.6225e+01 (7.91e+00) -	3.9686e+01 (5.34e+00) -	3.3185e+01 (4.23e+00) -	3.3962e+01 (5.94e+00) -
CEC19-MaTMO4-T10	9.3570e-03 (2.87e-03)	1.7308e+01 (6.30e+00) -	4.1646e+01 (5.52e+00) -	3.3059e+01 (3.34e+00) -	3.4778e+01 (4.69e+00) -
CEC19-MaTMO4-T11	9.6912e-03 (1.63e-03)	1.8636e+01 (5.20e+00) -	4.1805e+01 (7.27e+00) -	3.2615e+01 (4.13e+00) -	3.3874e+01 (3.56e+00) -
CEC19-MaTMO4-T12	2.5183e-02 (6.30e-02)	1.7534e+01 (6.25e+00) -	4.0142e+01 (3.45e+00) -	3.3884e+01 (3.95e+00) -	3.3925e+01 (4.46e+00) -
CEC19-MaTMO4-T13	1.2190e-02 (1.59e-02)	1.5682e+01 (5.37e+00) -	4.0181e+01 (6.66e+00) -	3.4020e+01 (4.57e+00) -	3.3096e+01 (4.86e+00) -
CEC19-MaTMO4-T14	8.8518e-03 (7.40e-04)	1.6635e+01 (5.56e+00) -	4.1018e+01 (4.87e+00) -	3.3108e+01 (3.03e+00) -	3.4011e+01 (4.42e+00) -
CEC19-MaTMO4-T15	8.4864e-03 (1.33e-03)	1.8359e+01 (7.11e+00) -	4.1790e+01 (7.79e+00) -	3.3474e+01 (3.97e+00) -	3.4454e+01 (3.37e+00) -
CEC19-MaTMO4-T16	9.2300e-03 (1.28e-03)	1.7679e+01 (6.37e+00) -	3.9948e+01 (3.87e+00) -	3.4404e+01 (4.22e+00) -	3.5284e+01 (4.55e+00) -
CEC19-MaTMO4-T17	9.1530e-03 (1.56e-03)	1.3236e+01 (4.52e+00) -	4.1286e+01 (5.51e+00) -	3.3748e+01 (4.15e+00) -	3.3668e+01 (3.88e+00) -
CEC19-MaTMO4-T18	9.3290e-03 (1.26e-03)	1.8252e+01 (8.02e+00) -	4.2268e+01 (7.20e+00) -	3.3601e+01 (3.65e+00) -	3.4346e+01 (4.19e+00) -
CEC19-MaTMO4-T19	9.1280e-03 (2.18e-03)	1.7078e+01 (6.38e+00) -	4.0370e+01 (6.32e+00) -	3.3647e+01 (4.60e+00) -	3.4215e+01 (3.81e+00) -
CEC19-MaTMO4-T20	9.2817e-03 (1.38e-03)	1.5427e+01 (5.78e+00) -	3.8908e+01 (4.64e+00) -	3.2916e+01 (4.82e+00) -	3.5099e+01 (4.69e+00) -
CEC19-MaTMO4-T21	8.9876e-03 (9.76e-04)	1.9886e+01 (9.27e+00) -	4.1057e+01 (5.31e+00) -	3.3971e+01 (5.06e+00) -	3.4878e+01 (4.02e+00) -
CEC19-MaTMO4-T22	9.0220e-03 (1.25e-03)	1.9045e+01 (5.86e+00) -	4.1888e+01 (4.96e+00) -	3.4386e+01 (3.75e+00) -	3.4744e+01 (2.83e+00) -
CEC19-MaTMO4-T23	1.7947e-01 (7.61e-01)	1.7846e+01 (5.23e+00) -	4.3092e+01 (4.74e+00) -	3.3829e+01 (4.10e+00) -	3.4126e+01 (4.69e+00) -
CEC19-MaTMO4-T24	8.9064e-03 (1.32e-03)	1.6145e+01 (5.75e+00) -	4.1527e+01 (5.66e+00) -	3.3194e+01 (4.04e+00) -	3.4729e+01 (4.73e+00) -
CEC19-MaTMO4-T25	1.1899e-01 (4.92e-01)	1.6866e+01 (5.60e+00) -	4.0748e+01 (4.83e+00) -	3.3348e+01 (3.34e+00) -	3.6107e+01 (4.40e+00) -
CEC19-MaTMO4-T26	8.8653e-03 (1.01e-03)	1.4931e+01 (6.63e+00) -	4.1563e+01 (4.24e+00) -	3.4965e+01 (4.02e+00) -	3.4235e+01 (4.77e+00) -
CEC19-MaTMO4-T27	9.3716e-03 (1.37e-03)	1.7202e+01 (5.67e+00) -	4.1624e+01 (4.81e+00) -	3.4684e+01 (3.16e+00) -	3.4304e+01 (4.62e+00) -
CEC19-MaTMO4-T28	9.3265e-03 (1.66e-03)	1.7600e+01 (6.37e+00) -	4.2581e+01 (6.78e+00) -	3.4829e+01 (4.17e+00) -	3.4820e+01 (4.69e+00) -
CEC19-MaTMO4-T29	9.2209e-03 (4.19e-03)	1.8689e+01 (7.80e+00) -	4.1809e+01 (7.01e+00) -	3.2492e+01 (3.83e+00) -	3.5302e+01 (3.83e+00) -
CEC19-MaTMO4-T30	9.0423e-03 (1.15e-03)	1.6640e+01 (5.82e+00) -	4.1916e+01 (6.48e+00) -	3.2057e+01 (4.50e+00) -	3.2267e+01 (4.29e+00) -
CEC19-MaTMO4-T31	8.9324e-03 (1.09e-03)	1.5448e+01 (5.31e+00) -	4.0234e+01 (5.55e+00) -	3.2953e+01 (3.53e+00) -	3.5643e+01 (6.11e+00) -
CEC19-MaTMO4-T32	8.8202e-03 (7.73e-04)	1.8848e+01 (7.49e+00) -	4.2487e+01 (6.23e+00) -	3.5070e+01 (3.50e+00) -	3.4818e+01 (4.65e+00) -
CEC19-MaTMO4-T33	2.6096e-01 (1.13e+00)	1.6539e+01 (6.75e+00) -	3.9603e+01 (5.31e+00) -	3.3359e+01 (3.67e+00) -	3.3533e+01 (3.40e+00) -
CEC19-MaTMO4-T34	8.7903e-03 (9.58e-04)	1.8026e+01 (6.12e+00) -	4.0368e+01 (6.19e+00) -	3.3856e+01 (4.13e+00) -	3.4131e+01 (3.93e+00) -
CEC19-MaTMO4-T35	9.5932e-03 (1.48e-03)	1.8308e+01 (6.47e+00) -	4.0706e+01 (6.06e+00) -	3.3735e+01 (4.23e+00) -	3.4051e+01 (5.28e+00) -
CEC19-MaTMO4-T36	1.0051e-02 (3.84e-03)	1.7766e+01 (5.54e+00) -	4.1471e+01 (4.53e+00) -	3.2874e+01 (3.57e+00) -	3.3426e+01 (2.94e+00) -
CEC19-MaTMO4-T37	8.8556e-03 (1.25e-03)	1.4411e+01 (6.14e+00) -	4.1122e+01 (6.82e+00) -	3.2533e+01 (3.78e+00) -	3.4830e+01 (4.17e+00) -
CEC19-MaTMO4-T38	8.8156e-03 (1.32e-03)	1.6222e+01 (6.64e+00) -	4.0490e+01 (6.11e+00) -	3.4698e+01 (2.86e+00) -	3.4535e+01 (3.33e+00) -
CEC19-MaTMO4-T39	9.6424e-03 (2.65e-03)	1.8504e+01 (6.30e+00) -	4.1908e+01 (5.68e+00) -	3.3629e+01 (2.95e+00) -	3.4438e+01 (5.38e+00) -
CEC19-MaTMO4-T40	9.8482e-03 (3.58e-03)	1.7632e+01 (4.88e+00) -	4.1643e+01 (5.09e+00) -	3.2851e+01 (3.78e+00) -	3.3848e+01 (4.23e+00) -
CEC19-MaTMO4-T41	9.7627e-03 (1.54e-03)	2.0802e+01 (6.64e+00) -	4.1198e+01 (5.05e+00) -	3.2340e+01 (3.52e+00) -	3.3066e+01 (4.42e+00) -
CEC19-MaTMO4-T42	8.9653e-03 (9.52e-04)	1.9241e+01 (6.25e+00) -	4.2748e+01 (6.46e+00) -	3.1879e+01 (3.49e+00) -	3.4661e+01 (5.04e+00) -
CEC19-MaTMO4-T43	8.5223e-03 (1.22e-03)	1.9452e+01 (7.51e+00) -	3.9774e+01 (5.10e+00) -	3.4621e+01 (4.45e+00) -	3.4859e+01 (4.34e+00) -
CEC19-MaTMO4-T44	9.3779e-03 (1.28e-03)	1.6317e+01 (6.43e+00) -	4.2010e+01 (5.93e+00) -	3.2569e+01 (3.72e+00) -	3.3467e+01 (2.52e+00) -
CEC19-MaTMO4-T45	9.0406e-03 (1.56e-03)	1.4875e+01 (4.29e+00) -	4.1570e+01 (6.77e+00) -	3.3504e+01 (3.89e+00) -	3.4342e+01 (4.08e+00) -
CEC19-MaTMO4-T46	9.0308e-03 (1.44e-03)	1.7370e+01 (6.07e+00) -	4.0555e+01 (5.47e+00) -	3.3171e+01 (5.46e+00) -	3.4948e+01 (4.24e+00) -
CEC19-MaTMO4-T47	1.8106e-02 (4.10e-02)	1.9448e+01 (7.89e+00) -	4.1369e+01 (6.30e+00) -	3.3307e+01 (2.91e+00) -	3.3575e+01 (3.80e+00) -
CEC19-MaTMO4-T48	8.9886e-03 (1.40e-03)	1.5411e+01 (6.44e+00) -	4.2765e+01 (4.90e+00) -	3.3809e+01 (3.22e+00) -	3.4877e+01 (4.81e+00) -
CEC19-MaTMO4-T49	9.0114e-03 (1.24e-03)	1.6078e+01 (5.90e+00) -	3.9724e+01 (4.06e+00) -	3.3349e+01 (4.46e+00) -	3.3323e+01 (2.99e+00) -
CEC19-MaTMO4-T50	8.8830e-03 (9.74e-04)	1.7107e+01 (6.09e+00) -	3.8943e+01 (6.01e+00) -	3.3205e+01 (3.27e+00) -	3.1532e+01 (5.23e+00) -
+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0

TABLE S45

COMPARISON OF KR-MTGA, MATGA, MO-SBO, MO-MFEA, AND NSGA-II IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED IGD OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATMO5 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATMO5 IN TEST SUITE 3.

CECI9-MATMOST-1 12346-02 (162-03) 2.0979-02 (2.42-03) 2.9921-02 (2.23-03) 2.9916-02 (1.83-03) 3.1534-02 (9.72-03) 2.0016-02 (1.83-03) 3.1534-02 (9.72-03) 2.0016-02 (1.83-03) 3.1534-02 (9.72-03) 2.0016-02 (1.83-03) 3.1534-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1.92-03) 2.0016-02 (1	Problem	KR-MTEA	MaTGA	MO-SBO	MO-MFEA	NSGA-II
CECI9-MATMOST 12.12342e-02 (8.87e-04) 2.0921e-02 (2.09e-03) 4.1271e-02 (5.11e-03) 2.981e-02 (1.91e-03) 2.29664e-02 (8.92e-03) 2.0001e-05 (6.94e-03) 2.0001					_	
CEC19-MATNOS-14 1.2076-02 (8.88-64) 2.0974-09 2.176-03 1.4076-02 (1.48-03) 2.8775-02 (1.62-03) 2.8001-02 (0.992-04) 2.0974-09 2.176-03 1.4085-02 (1.28-03) 2.8775-02 (1.18-03) 2.775-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1.18-03) 2.0071-02 (1		` ,	. ,			
CEC19.MATMOS.TS 12246-02 (8.98-04) 2.0946-02 (2.17e-03) 4.0285-02 (5.02e-03) 2.24765-02 (1.69-03) - 2.9165-02 (1.20e-02) - CEC19.MATMOS.TS 121226-02 (9.22e-04) 2.0662-02 (2.23e-03) 4.0311-02 (5.79e-03) 2.8984-02 (1.47e-03) - 3.0154-02 (1.56e-02) - CEC19.MATMOS.TS 11.1226-02 (9.22e-04) 2.0662-02 (2.23e-03) 4.0311-02 (5.79e-03) 2.8984-02 (1.47e-03) - 3.0154-02 (1.56e-02) - CEC19.MATMOS.TS 12.0476-02 (1.99e-03) 2.0807-02 (3.39e-03) 2.9287-02 (3.59e-03) 3.7941-02 (4.61e-02) - CEC19.MATMOS.TS 12.0476-02 (9.55e-04) 2.1667-02 (2.43e-03) 4.0100-02 (5.55e-03) 2.9285-02 (1.75e-03) 3.7941-02 (4.61e-02) - CEC19.MATMOS.TS 12.2396-02 (8.84e-04) 2.0865-02 (2.27e-03) 4.0256-02 (5.45e-03) 2.9754-02 (1.31e-03) 1.1349-01 (2.14e-01) - CEC19.MATMOS.T11 1.1378-02 (9.29e-04) 2.0965-02 (2.27e-03) 4.0256-02 (5.45e-03) 2.9754-02 (1.31e-03) 1.1349-01 (2.14e-01) - CEC19.MATMOS.T11 1.1378-02 (9.99e-04) 2.1372-02 (2.09e-03) 3.3715-02 (3.65e-03) 2.2376-02 (1.44e-03) 4.0292-02 (5.54e-04) 2.0202-02 (5.54e-03) 4.0256-02 (3.65e-03) 2.2376-02 (1.44e-03) 4.0292-02 (5.54e-04) 2.0202-02 (5.54e-04) 2.02		` ′	, ,	` /	` ` /	,
CEC19MaTMOS-T5   12246-02 (892-04)   2.0146-02 (1.58-03)   4.0683-02 (1.28-03)   2.8465-02 (1.18-03)   6.7765-02 (1.48-01)   CEC19MaTMOS-T5   1.1775-02 (8.74-04)   2.1277-02 (1.97-03)   3.9967-02 (3.39-03)   2.9371-02 (1.53-03)   7.1360-02 (1.96-04)   CEC19MaTMOS-T5   1.1775-02 (8.74-04)   2.1277-02 (1.97-03)   3.9967-02 (3.39-03)   2.9371-02 (1.53-03)   7.1360-02 (1.96-04)   CEC19MaTMOS-T5   1.246-02 (1.96-04)   2.0867-02 (2.43-03)   4.0100-02 (5.52-03)   2.8950-02 (1.04-03)   2.9416-02 (1.10-02)   CEC19MaTMOS-T0   1.246-02 (9.55-04)   2.0865-02 (2.27-03)   4.096-02 (5.52-03)   2.2950-02 (1.04-03)   2.9416-02 (1.10-02)   CEC19MaTMOS-T10   1.2366-02 (1.34-04)   2.0863-02 (2.27-03)   4.096-02 (3.63-03)   2.3479-02 (1.04-03)   4.092-02 (0.63-03)   4.092-02 (3.63-03)   2.3479-02 (1.04-03)   4.092-02 (0.63-03)   4.092-02 (3.63-03)   2.3479-02 (1.04-03)   4.092-02 (0.63-03)   4.092-02 (3.63-03)   2.3479-02 (1.04-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   2.3479-02 (1.04-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   2.3479-02 (1.04-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.092-02 (3.63-03)   4.			( , , , , , , , , , , , , , , , , , , ,		( ) )	( ,
CECI9-MATMOS-T7		( ,		(		
CECIP-MaTMOS-TP   1.1775-02 (R.74e-04)   2.1277-02 (1.97e-03)   3.9907-02 (3.39e-03)   2.9371-02 (1.53e-03)   7.1366-02 (1.19e-01)   7.1366-02 (1.97e-03)   2.9367-02 (1.19e-03)   2.9371-02 (1.19e-03)   2.		` ′	` /	` ′	` ` /	` ′
CECIPMATMOS-T9  1.26Fec 2.05E-0.02 (2.45e-0.3) - 4.1075c-0.2 (6.22e-0.3) - 2.8062e-0.2 (1.75e-0.3) - 3.7941e-0.2 (1.10-0.2) - CECIPMATMOS-T10  1.2289e-0.2 (8.84e-0.4) - 2.065c-0.2 (2.3e-0.3) - 4.0100-0.2 (5.25e-0.3) - 2.8975e-0.2 (1.31e-0.3) - 1.1349e-0.1 (2.14e-0.1) - CECIPMATMOS-T11  1.239e-0.2 (8.84e-0.4) - 2.095c-0.2 (2.3e-0.3) - 4.023c-0.2 (5.45e-0.3) - 2.9754e-0.2 (1.31e-0.3) - 1.1349e-0.1 (2.14e-0.1) - CECIPMATMOS-T11  1.239e-0.2 (1.24e-0.4) - 2.095c-0.2 (2.3e-0.3) - 4.023c-0.2 (3.65e-0.3) - 2.9754e-0.2 (1.31e-0.3) - 1.1349e-0.1 (2.14e-0.1) - CECIPMATMOS-T11  1.239e-0.2 (1.24e-0.4) - 2.196c-0.2 (2.34e-0.3) - 4.0926c-0.2 (3.42e-0.3) - 2.9712e-0.2 (1.86e-0.3) - 2.743z-0.2 (5.32e-0.3) - 2.005c-0.2 (1.24e-0.4) - 2.196c-0.2 (2.34e-0.3) - 4.0926c-0.2 (3.42e-0.3) - 2.9712e-0.2 (1.86e-0.3) - 5.4997e-0.2 (8.76e-0.2) - CECIPMATMOS-T11  1.239e-0.2 (2.0e-0.4) - 2.198c-0.2 (2.14e-0.3) - 2.198c-0.2 (2.18e-0.3) - 2.1972e-0.2 (1.86e-0.3) - 3.1007c-0.2 (9.55e-0.3) - 2.198c-0.2 (2.18e-0.3) - 2.116e-0.2 (2.18						
CECI9-MaTMOS-TI0   1.246c-02 (0.55c-04)   2.667c-02 (2.34c-03)   4.0100c-02 (5.52c-03)   2.8905c-02 (1.04c-03)   2.9416c-02 (1.10c-02)   1.1878c-02 (0.75c-04)   2.0965c-02 (2.36c-03)   4.026c-02 (5.85c-03)   2.8479c-02 (1.34c-03)   4.902c-02 (5.54c-02)   1.2489c-02 (1.44c-03)   4.902c-02 (5.54c-02)   1.2489c-02 (1.44c-03)   4.902c-02 (5.54c-02)   1.2489c-02 (1.44c-03)   4.902c-02 (5.54c-02)   1.2489c-02 (1.24c-03)   4.092c-02 (5.36c-03)   4.092c-02 (5.35c-03)   2.8479c-02 (1.44c-03)   4.902c-02 (5.54c-02)   1.2489c-02 (1.24c-03)   4.092c-02 (5.35c-03)   4.092c-02 (5.35c-03)   2.9519c-02 (2.19c-03)   5.4497c-02 (5.36c-02)   1.2489c-02 (6.26c-04)   2.1838c-02 (2.38c-03)   4.092c-02 (3.42c-03)   2.9519c-02 (2.19c-03)   5.4497c-02 (3.65c-02)   1.2489c-02 (6.26c-04)   2.042r-02 (1.66c-03)   3.8352c-02 (3.88c-03)   2.9539c-02 (1.68c-03)   3.1007c-02 (9.35c-03)   1.007c-02 (9.35c-03)   1.			. ,	` /		. ,
CEC19-MaTMOS-T10   1.229-02 (8.84-04)   2.0863e-02 (2.27e-03)   4.0236e-02 (5.45-03)   2.9754e-02 (1.31e-03)   1.3139e-01 (2.14e-01)   CEC19-MaTMOS-T11   1.2878-02 (9.69e-04)   2.0732e-02 (2.00e-03)   3.8715e-02 (3.65e-03)   2.9519e-02 (2.19e-03)   4.0922e-02 (5.32e-03)   CEC19-MaTMOS-T11   1.2878-02 (9.69e-04)   2.1732e-02 (2.00e-03)   3.8715e-02 (3.65e-03)   2.9172e-02 (1.58e-03)   2.7432e-02 (5.32e-03)   CEC19-MaTMOS-T11   1.2886e-02 (1.24e-03)   2.1732e-02 (2.38e-03)   4.0926e-02 (3.42e-03)   2.9172e-02 (1.58e-03)   6.1112e-02 (1.56e-02)   CEC19-MaTMOS-T11   1.2499e-02 (6.20e-04)   2.1783e-02 (1.68e-03)   3.8335e-02 (3.18e-03)   2.8799e-02 (1.68e-03)   6.1112e-02 (1.05e-01)   CEC19-MaTMOS-T11   1.2397e-02 (7.74e-04)   2.1221e-02 (1.74e-03)   3.8335e-02 (3.18e-03)   2.8928e-02 (1.34e-03)   6.2763e-02 (1.55e-01)   CEC19-MaTMOS-T11   1.2397e-02 (1.15e-03)   2.0081e-02 (1.69e-03)   4.1200e-02 (8.42e-03)   2.8923e-02 (1.34e-03)   2.6824e-02 (9.56e-03)   CEC19-MaTMOS-T12   1.2596-02 (1.15e-03)   2.0818e-02 (1.89e-03)   3.3785e-02 (8.82e-03)   2.9189e-02 (1.23e-03)   3.3628e-02 (2.06e-03)   2.0818e-02 (2.06e-03)   3.0818e-02 (3.06e-03)   3.0		` ′	` /	` ′	` ` /	` ′
CEC19-MaTMOS-T11   1.1878-01 (9.72e-04)   2.0965e-02 (2.36e-03)   4.0306-02 (3.63e-03)   2.8479e-02 (1.44e-03)   4.092e-02 (6.54e-02)   CEC19-MaTMOS-T13   1.2396e-02 (1.24e-03)   2.1496e-02 (2.09e-03)   3.8715e-02 (3.65e-03)   2.97172e-02 (1.58e-03)   2.7432e-02 (6.32e-03)   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.000600   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.0006000   2.00060000   2.00060000   2.0006000000000000000000000000000000000		` ,	` /	` /	` /	` /
CECIP-MaTMOS-T12   1.2037-02 (9.99-04)   2.1732e-02 (2.00e-03)   3.8715e-02 (3.65e-03)   2.915e-02 (1.19e-03)   2.7432e-02 (5.35e-03)   2.0215e-02 (1.19e-03)   2.7432e-02 (5.35e-03)   2.0215e-02 (1.19e-03)   2.0215e-02 (		( ,				,
CEC19-MaTMOS-T14   1.2496-02 (1.24e-03)   2.1496-02 (2.48e-03)   4.0936-02 (3.42e-03)   2.9172e-02 (1.58e-03)   5.4997e-02 (6.76e-02)		` ′	` /	` ′	` ` /	` ′
CEC19-MaTMOS-T15   1,248e-02 (8,91e-04)   2,1583e-02 (2,38e-03)   4,0164e-02 (4,98e-03)   2,2579e-02 (1,29e-03)   6,1112e-02 (1,50e-01)   6,107e-02 (3,58e-03)   3,8385e-02 (3,38e-03)   2,2579e-02 (1,68e-03)   6,2763e-02 (1,55e-01)   7,007e-02 (3,58e-03)   7,007e-02 (3,58e-						
CEC19-MaTMOS-T15   1.2439-e02 (6.20e-04)   2.0427-e02 (1.68e-03)   3.8352e-02 (3.18e-03)   2.8799e-02 (1.68e-03)   3.1007e-02 (9.35e-03)   CEC19-MaTMOS-T17   1.2397e-02 (7.74e-04)   2.1221e-02 (1.70e-03)   4.0316e-02 (3.10e-03)   2.8923e-02 (1.34e-03)   6.2763e-02 (1.55e-03)   CEC19-MaTMOS-T17   1.2397e-02 (7.74e-04)   2.1221e-02 (1.70e-03)   4.0316e-02 (3.10e-03)   2.8923e-02 (1.34e-03)   2.6824e-02 (9.45e-03)   2.6824e-02 (9.45e-03)   2.0036e-02 (1.05e-03)   4.1200e-02 (8.42e-03)   2.9856e-02 (1.35e-03)   3.2658e-02 (1.06e-02)   2.0561e-02 (8.76e-04)   2.1516e-02 (3.00e-03)   3.9348e-02 (3.57e-03)   2.9189e-02 (1.23e-03)   6.1448e-02 (1.44e-01)   CEC19-MaTMOS-T22   1.2366e-02 (8.76e-04)   2.1513e-02 (2.03e-03)   3.9438e-02 (3.57e-03)   2.9512e-02 (1.43e-03)   2.9543e-02 (6.80e-03)   CEC19-MaTMOS-T22   1.2086e-02 (2.09e-04)   2.0496e-02 (2.36e-03)   3.9438e-02 (3.57e-03)   2.9512e-02 (1.43e-03)   2.7120e-02 (4.90e-03)   CEC19-MaTMOS-T22   1.2087e-02 (1.10e-03)   2.0496e-02 (2.36e-03)   3.9680e-02 (3.22e-03)   2.9168e-02 (1.64e-03)   7.5155e-02 (1.06e-01)   CEC19-MaTMOS-T23   1.236e-02 (1.11e-03)   2.0773e-02 (1.92e-03)   4.0007e-02 (2.91e-03)   2.9346e-02 (1.04e-01)   CEC19-MaTMOS-T24   1.8016e-02 (1.11e-03)   2.0773e-02 (1.92e-03)   4.0007e-02 (2.91e-03)   2.9346e-02 (1.04e-03)   5.1135e-02 (1.04e-01)   CEC19-MaTMOS-T25   1.2687e-02 (1.11e-03)   2.0773e-02 (1.92e-03)   4.0007e-02 (2.91e-03)   2.9346e-02 (1.04e-03)   5.1135e-02 (1.04e-01)   CEC19-MaTMOS-T29   1.2268e-02 (1.04e-03)   2.1160e-02 (2.07e-03)   4.0007e-02 (2.91e-03)   2.9346e-02 (1.04e-03)   5.1135e-02 (1.04e-01)   CEC19-MaTMOS-T29   1.2387e-02 (1.02e-03)   2.0156e-02 (1.06e-03)   4.0007e-02 (2.91e-03)   2.8385e-02 (1.51e-03)   5.1135e-02 (1.04e-01)   CEC19-MaTMOS-T29   1.2387e-02 (1.02e-03)   2.0156e-02 (1.06e-03)   3.0008e-02 (3.32e-03)   2.8007e-02 (1.66e-03)   2.8317e-02 (2.07e-03)   4.0007e-02 (2.91e-03)   2.8316e-02 (1.66e-03)   2.8317e-02 (1.02e-03)   2.8316e-02 (1.66e-03)   2.8316e-02 (1.66e-03)   2.8316e-02 (1.66e-03)   2.8316e-02 (1.66e				` /	` /	` /
CECI9-MaTMOS-TI7   1.2397-02 (1.04e-03)   2.1292e-02 (1.74e-03)   3.8215e-02 (2.46e-03)   2.8912e-02 (1.63e-03)   6.2763e-02 (1.55e-01)   -			` /	` ′	` ` /	` ′
CEC19-MaTMOS-T17   1.2397e-02 (7.74e-04)   2.1221e-02 (1.70e-03)   4.0316e-02 (3.10e-03)   2.8952e-02 (1.35e-03)   2.6852e-02 (0.45e-03)   2.6052e-02 (1.69e-03)   2.0036e-02 (1.69e-03)   4.1200e-02 (8.42e-03)   2.8652e-02 (1.35e-03)   3.2658e-02 (1.06e-02)   2.0036e-02 (1.69e-03)   3.2658e-02 (1.69e-03)   2.8952e-02 (1.35e-03)   3.2658e-02 (1.06e-02)   2.0036e-02 (1.69e-03)   3.2036e-02 (1.69e-03)   3.2038e-02 (3.57e-03)   3.2038e-02 (3.57e-03)   3.2038e-02 (3.69e-04)   3.2036e-02 (3.09e-03)   3.2038e-02 (3.57e-03)   3.2038e-02 (3.69e-03)   3.2036e-02 (3.09e-03)   3.2036e-0		` ,		` /	` /	` /
CEC19-MaTMO5-T18						
CEC19-MaTMOS-T29		, ,	, ,	1	` ,	, ,
CEC19-MaTMO5-T20			( )	(		,
CEC19-MaTMO5-T22   1.2086-02 (9.76c-04)   2.0481c-02 (1.89c-03)   3.9832c-02 (4.54c-03)   2.9512c-02 (1.43c-03)   2.7120c-02 (4.99c-03)   CEC19-MaTMO5-T22   1.2087c-02 (1.99c-04)   2.0496c-02 (2.36c-03)   3.9680c-02 (3.22c-03)   2.9168c-02 (1.64c-03)   5.4995c-02 (1.23c-01)   6.2005c-02 (1.23c-01)   6.2005c-02 (3.01c-03)   2.9168c-02 (1.94c-03)   5.4956c-02 (1.04c-01)   5.4965c-02 (1.0					` /	
CEC19-MaTMO5-T22   1.2087e-02 (1.06e-03)   2.1020e-02 (1.70e-03)   4.0241e-02 (5.66e-03)   2.9262e-02 (2.00e-03)   5.4995e-02 (1.23e-01)		` ,	` /	` ′	` ′	` ′
CEC19-MaTMO5-T23   1.2336e-02 (9.19e-04)   2.0496e-02 (2.36e-03)   3.9680e-02 (3.22e-03)   2.9168e-02 (1.64e-03)   7.5155e-02 (1.68e-01)		` ,	` /	` /	` /	` /
CEC19-MaTMO5-T25   1.286-02 (1.11e-03)   2.0773e-02 (1.92e-03)   4.0007e-02 (2.91e-03)   2.9346e-02 (2.03e-03)   2.8200e-02 (8.47e-03)   2.8200e-02 (1.49e-02)   2.8200e-02 (1.49e-03)   2.8200e-02 (1.49e-02)   2.8200e-02 (1.49e-03)   2.8200e-02 (1.49e-02)   2.8200e-02 (1.49e-03)   2.8200e-02					( ,	
CEC19-MaTMOS-T25	CEC19-MaTMO5-T23	1.2336e-02 (9.19e-04)	2.0496e-02 (2.36e-03) -	3.9680e-02 (3.22e-03) -	2.9168e-02 (1.64e-03) -	7.5155e-02 (1.68e-01) -
CEC19-MaTMO5-T26	CEC19-MaTMO5-T24		( )	(		
CEC19-MaTMO5-T27		` ,				
CEC19-MaTMO5-T28	CEC19-MaTMO5-T26	1.2252e-02 (8.51e-04)	2.1325e-02 (2.00e-03) -	4.0887e-02 (6.09e-03) -	2.9412e-02 (1.74e-03) -	3.2217e-02 (1.72e-02) -
CEC19-MaTMO5-T29	CEC19-MaTMO5-T27	` ,	` /	` /	` /	` /
CEC19-MaTMO5-T30		` ,	` /	` /	` /	` /
CEC19-MaTMO5-T31   1.2197e-02 (1.02e-03)   2.1237e-02 (2.07e-03) - 3.9348e-02 (4.21e-03) - 2.8625e-02 (1.63e-03) - 1.1244e-01 (2.53e-01) - CEC19-MaTMO5-T32   1.2154e-02 (9.45e-04)   2.0798e-02 (2.48e-03) - 3.9135e-02 (3.12e-03) - 2.8248e-02 (1.68e-03) - 5.9859e-02 (1.39e-01) - CEC19-MaTMO5-T33   1.1996e-02 (1.04e-03)   2.1188e-02 (2.22e-03) - 4.0532e-02 (5.27e-03) - 2.8123e-02 (1.37e-03) - 6.0208e-02 (1.22e-01) - CEC19-MaTMO5-T34   1.2303e-02 (7.80e-04)   2.0485e-02 (1.63e-03) - 3.8828e-02 (3.02e-03) - 2.9736e-02 (1.66e-03) - 1.0272e-01 (2.12e-01) - CEC19-MaTMO5-T35   1.2321e-02 (1.01e-03)   2.1125e-02 (2.32e-03) - 3.9206e-02 (4.35e-03) - 2.9736e-02 (1.66e-03) - 1.0272e-01 (2.12e-01) - CEC19-MaTMO5-T35   1.2218e-02 (7.24e-04)   2.1055e-02 (2.15e-03) - 4.1268e-02 (5.62e-03) - 3.0032e-02 (1.74e-03) - 3.6317e-02 (3.23e-02) - CEC19-MaTMO5-T37   1.1936e-02 (5.03e-04)   2.0658e-02 (1.187e-03) - 4.0144e-02 (3.60e-03) - 2.9508e-02 (1.69e-03) - 3.0375e-02 (1.13e-02) - CEC19-MaTMO5-T39   1.1850e-02 (1.01e-03)   2.0840e-02 (2.06e-03) - 3.8832e-02 (4.23e-03) - 2.8474e-02 (1.38e-03) - 3.3816e-02 (1.81e-02) - CEC19-MaTMO5-T40   1.2311e-02 (1.10e-03)   2.1800e-02 (1.63e-03) - 3.9149e-02 (4.36e-03) - 2.8531e-02 (1.54e-03) - 3.3810e-02 (1.61e-02) - CEC19-MaTMO5-T41   1.2265e-02 (9.31e-04)   2.0815e-02 (1.80e-03) - 4.0018e-02 (4.72e-03) - 2.8531e-02 (1.54e-03) - 2.7580e-02 (9.35e-03) - CEC19-MaTMO5-T42   1.2241e-02 (1.05e-03)   2.1827e-02 (1.80e-03) - 4.0018e-02 (4.72e-03) - 2.9075e-02 (2.01e-03) - 2.7580e-02 (9.35e-03) - CEC19-MaTMO5-T44   1.2391e-02 (1.10e-03)   2.1827e-02 (1.87e-03) - 4.0018e-02 (6.41e-03) - 2.9075e-02 (2.01e-03) - 2.5780e-02 (9.95e-02) - CEC19-MaTMO5-T44   1.2391e-02 (1.10e-03)   2.1827e-02 (1.87e-03) - 3.9845e-02 (3.26e-03) - 2.9172e-02 (1.81e-03) - 6.5327e-02 (1.64e-01) - CEC19-MaTMO5-T44   1.2261e-02 (9.28e-04)   2.0457e-02 (1.88e-03) - 3.9845e-02 (3.26e-03) - 2.8310e-02 (1.82e-03) - 2.8358e-02 (7.01e-03) - 2.62629-03 - 2.8310e-02 (1.82e-03) - 2.8358e-02 (7.01e-03) - 2.8358e-02 (7.01e-03) - 2.8358e-02 (		, ,	,	\ /	` /	, ,
CEC19-MaTMO5-T32   1.2154e-02 (9.45e-04)   2.0798e-02 (2.48e-03) -   3.9135e-02 (3.12e-03) -   2.8248e-02 (1.68e-03) -   5.9859e-02 (1.39e-01) -   CEC19-MaTMO5-T33   1.1996e-02 (1.04e-03)   2.1188e-02 (2.22e-03) -   4.0532e-02 (5.27e-03) -   2.8123e-02 (1.37e-03) -   6.0208e-02 (1.22e-01) -   CEC19-MaTMO5-T34   1.2303e-02 (7.80e-04)   2.0485e-02 (1.63e-03) -   3.8828e-02 (3.02e-03) -   2.9736e-02 (1.66e-03) -   1.0272e-01 (2.12e-01) -   CEC19-MaTMO5-T35   1.221e-02 (1.01e-03)   2.1125e-02 (2.32e-03) -   3.9206e-02 (4.35e-03) -   2.99736e-02 (1.57e-03) -   2.8532e-02 (1.04e-02) -   CEC19-MaTMO5-T36   1.2218e-02 (7.24e-04)   2.1055e-02 (2.15e-03) -   4.1268e-02 (5.62e-03) -   3.0032e-02 (1.74e-03) -   3.6317e-02 (3.23e-02) -   CEC19-MaTMO5-T37   1.1936e-02 (5.03e-04)   2.0658e-02 (1.87e-03) -   4.0144e-02 (3.60e-03) -   2.9508e-02 (1.69e-03) -   3.0375e-02 (1.13e-02) -   CEC19-MaTMO5-T38   1.2039e-02 (9.50e-04)   2.0815e-02 (2.11e-03) -   4.0441e-02 (2.64e-03) -   2.8474e-02 (1.38e-03) -   3.3816e-02 (1.81e-02) -   CEC19-MaTMO5-T39   1.1850e-02 (1.01e-03)   2.0840e-02 (2.06e-03) -   3.8832e-02 (4.23e-03) -   2.9115e-02 (1.54e-03) -   3.3800e-02 (1.61e-02) -   CEC19-MaTMO5-T40   1.2311e-02 (1.10e-03)   2.1800e-02 (1.63e-03) -   4.0018e-02 (4.72e-03) -   2.8975e-02 (2.01e-03) -   2.7580e-02 (3.68e-03) -   CEC19-MaTMO5-T42   1.2269e-02 (5.78e-04)   2.0815e-02 (1.88e-03) -   4.0718e-02 (6.41e-03) -   2.8918e-02 (1.75e-03) -   4.9116e-02 (9.55e-02) -   CEC19-MaTMO5-T44   1.2269e-02 (5.78e-04)   2.1549e-02 (2.88e-03) -   3.8655e-02 (2.56e-03) -   2.9911e-02 (1.81e-03) -   2.8358e-02 (7.01e-03) -   CEC19-MaTMO5-T45   1.1944e-02 (8.91e-04)   2.0457e-02 (1.87e-03) -   3.9845e-02 (3.26e-03) -   2.8310e-02 (1.82e-03) -   2.8358e-02 (7.01e-03) -   2.8358e-02 (7.01e-03			( )	( )	(	
CEC19-MaTM05-T33						,
CEC19-MaTMO5-T34   1.2303e-02 (7.80e-04)   2.0485e-02 (1.63e-03) - 3.8828e-02 (3.02e-03) - 2.9736e-02 (1.66e-03) - 1.0272e-01 (2.12e-01) - CEC19-MaTMO5-T35   1.2321e-02 (1.01e-03)   2.1125e-02 (2.32e-03) - 3.9206e-02 (4.35e-03) - 2.9074e-02 (1.57e-03) - 2.8532e-02 (1.04e-02) - CEC19-MaTMO5-T36   1.2218e-02 (7.24e-04)   2.1055e-02 (2.15e-03) - 4.1268e-02 (5.62e-03) - 3.0032e-02 (1.74e-03) - 3.6317e-02 (3.23e-02) - CEC19-MaTMO5-T37   1.1936e-02 (5.03e-04)   2.0658e-02 (1.87e-03) - 4.0194e-02 (3.60e-03) - 2.9508e-02 (1.69e-03) - 3.0375e-02 (1.13e-02) - CEC19-MaTMO5-T37   1.2039e-02 (9.50e-04)   2.0815e-02 (2.11e-03) - 4.0441e-02 (2.64e-03) - 2.8474e-02 (1.38e-03) - 3.3816e-02 (1.81e-02) - CEC19-MaTMO5-T39   1.850e-02 (1.10e-03)   2.0840e-02 (2.06e-03) - 3.8832e-02 (4.23e-03) - 2.9115e-02 (1.54e-03) - 3.3800e-02 (1.61e-02) - CEC19-MaTMO5-T40   1.2311e-02 (1.10e-03)   2.1800e-02 (1.63e-03) - 3.9149e-02 (4.36e-03) - 2.851e-02 (1.29e-03) - 2.6896e-02 (3.68e-03) - CEC19-MaTMO5-T41   1.2265e-02 (9.31e-04)   2.0815e-02 (1.80e-03) - 4.0018e-02 (4.72e-03) - 2.9075e-02 (2.01e-03) - 2.7580e-02 (9.35e-03) - CEC19-MaTMO5-T44   1.2311e-02 (1.05e-03)   2.1827e-02 (1.74e-03) - 4.0713e-02 (6.41e-03) - 2.8918e-02 (1.75e-03) - 4.9116e-02 (9.95e-02) - CEC19-MaTMO5-T44   1.2391e-02 (1.10e-03)   2.1067e-02 (1.88e-03) - 3.8655e-02 (2.56e-03) - 2.9172e-02 (1.81e-03) - 6.5327e-02 (1.64e-01) - CEC19-MaTMO5-T45   1.265e-02 (9.28e-04)   2.0457e-02 (1.88e-03) - 3.9845e-02 (2.56e-03) - 2.8310e-02 (1.52e-03) - 2.8358e-02 (7.01e-03) - CEC19-MaTMO5-T45   1.1944e-02 (8.91e-04)   2.0457e-02 (1.87e-03) - 3.9960e-02 (6.25e-03) - 2.8310e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - CEC19-MaTMO5-T47   1.1944e-02 (8.91e-04)   2.1070e-02 (1.63e-03) - 3.9960e-02 (6.25e-03) - 2.8310e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - CEC19-MaTMO5-T47   1.1944e-02 (8.91e-04)   2.1070e-02 (1.63e-03) - 3.9960e-02 (6.25e-03) - 2.8320e-02 (1.76e-03) - 2.87792e-02 (7.27e-03) - CEC19-MaTMO5-T47   1.1944e-02 (8.91e-04)   2.1070e-02 (1.63e-03) - 3.9960e-02 (6.25e-03) - 2.8828e-0		` ,		` /	` /	. ,
CEC19-MaTMO5-T35  1.2321e-02 (1.01e-03)  2.1125e-02 (2.32e-03) - 3.9206e-02 (4.35e-03) - 2.9074e-02 (1.57e-03) - 2.8532e-02 (1.04e-02) - CEC19-MaTMO5-T36  1.2218e-02 (7.24e-04)  2.1055e-02 (2.15e-03) - 4.1268e-02 (5.62e-03) - 3.0032e-02 (1.74e-03) - 3.6317e-02 (3.23e-02) - CEC19-MaTMO5-T37  1.1936e-02 (5.03e-04)  2.0658e-02 (1.87e-03) - 4.0194e-02 (3.60e-03) - 2.9508e-02 (1.69e-03) - 3.0375e-02 (1.13e-02) - CEC19-MaTMO5-T38  1.2039e-02 (9.50e-04)  2.0815e-02 (2.11e-03) - 4.0441e-02 (2.64e-03) - 2.8474e-02 (1.38e-03) - 3.8816e-02 (1.81e-02) - CEC19-MaTMO5-T39  1.1850e-02 (1.01e-03)  2.0840e-02 (2.06e-03) - 3.8832e-02 (4.23e-03) - 2.9115e-02 (1.54e-03) - 3.8800e-02 (1.61e-02) - CEC19-MaTMO5-T40  1.2311e-02 (1.10e-03)  2.1800e-02 (1.63e-03) - 3.9149e-02 (4.36e-03) - 2.851e-02 (1.29e-03) - 2.6896e-02 (3.68e-03) - CEC19-MaTMO5-T41  1.2265e-02 (9.31e-04)  2.0815e-02 (1.80e-03) - 4.0018e-02 (4.72e-03) - 2.9075e-02 (2.01e-03) - 2.7580e-02 (9.35e-03) - CEC19-MaTMO5-T41  1.2265e-02 (9.31e-04)  2.1827e-02 (1.74e-03) - 4.0713e-02 (6.41e-03) - 2.8918e-02 (1.75e-03) - 4.9116e-02 (9.95e-02) - CEC19-MaTMO5-T44  1.2391e-02 (1.10e-03)  2.1067e-02 (1.88e-03) - 3.8855e-02 (2.56e-03) - 2.9172e-02 (1.81e-03) - 2.6327e-02 (4.56e-03) - CEC19-MaTMO5-T45  1.1962e-02 (9.28e-04)  2.0457e-02 (1.87e-03) - 3.9845e-02 (3.26e-03) - 2.8310e-02 (1.58e-03) - 2.8358e-02 (7.01e-03) - CEC19-MaTMO5-T45  1.2658-02 (1.10e-03)  2.0961e-02 (1.10e-03) - 3.9845e-02 (3.26e-03) - 2.8310e-02 (1.82e-03) - 2.8358e-02 (7.01e-03) - CEC19-MaTMO5-T45  1.2668-04)  2.1070e-02 (1.88e-03) - 3.9960e-02 (6.25e-03) - 2.8311e-02 (1.98e-03) - 2.7792e-02 (7.27e-03) - CEC19-MaTMO5-T45  1.1944e-02 (8.91e-04) 2.1070e-02 (1.63e-03) - 3.9960e-02 (6.25e-03) - 2.8311e-02 (1.98e-03) - 2.87792e-02 (7.27e-03) - CEC19-MaTMO5-T45  1.2668-04 (2.01e-04) 2.1070e-02 (1.63e-03) - 3.9960e-02 (6.25e-03) - 2.8311e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - CEC19-MaTMO5-T45  1.294e-02 (8.60e-04) 2.1358e-02 (2.16e-03) - 3.9960e-02 (6.25e-03) - 2.8828e-02 (1.77e-03) - 3.8832e-02 (3.22e-02) - CEC19-Ma		` ′	` /	` ′	` ` /	` ′
CEC19-MaTMO5-T36		` ,	` /	` /	` /	` /
CEC19-MaTMO5-T37  1.1936e-02 (5.03e-04) 2.0658e-02 (1.87e-03) - 4.0194e-02 (3.60e-03) - 2.9508e-02 (1.69e-03) - 3.0375e-02 (1.13e-02) - CEC19-MaTMO5-T38 1.2039e-02 (9.50e-04) 2.0815e-02 (2.11e-03) - 4.0441e-02 (2.64e-03) - 2.8474e-02 (1.38e-03) - 3.3816e-02 (1.81e-02) - CEC19-MaTMO5-T39 1.1850e-02 (1.01e-03) 2.0840e-02 (2.06e-03) - 3.8832e-02 (4.23e-03) - 2.9115e-02 (1.54e-03) - 3.3800e-02 (1.61e-02) - CEC19-MaTMO5-T40 1.2311e-02 (1.10e-03) 2.1800e-02 (1.63e-03) - 3.9149e-02 (4.36e-03) - 2.8531e-02 (1.29e-03) - 2.6896e-02 (3.68e-03) - CEC19-MaTMO5-T41 1.2265e-02 (9.31e-04) 2.0815e-02 (1.80e-03) - 4.0018e-02 (4.72e-03) - 2.9075e-02 (2.01e-03) - 2.7580e-02 (9.35e-03) - CEC19-MaTMO5-T42 1.2541e-02 (1.05e-03) 2.1827e-02 (1.74e-03) - 4.0713e-02 (6.41e-03) - 2.8918e-02 (1.75e-03) - 4.9116e-02 (9.95e-02) - CEC19-MaTMO5-T43 1.2269e-02 (5.78e-04) 2.1549e-02 (2.28e-03) - 4.0518e-02 (9.52e-03) - 2.9172e-02 (1.81e-03) - 6.5327e-02 (1.64e-01) - CEC19-MaTMO5-T44 1.2391e-02 (1.10e-03) 2.1067e-02 (1.88e-03) - 3.8655e-02 (2.56e-03) - 2.9311e-02 (1.53e-03) - 2.6327e-02 (4.56e-03) - CEC19-MaTMO5-T45 1.1962e-02 (9.28e-04) 2.0457e-02 (1.87e-03) - 3.9845e-02 (3.26e-03) - 2.8310e-02 (1.82e-03) - 2.8358e-02 (7.01e-03) - CEC19-MaTMO5-T46 1.2653e-02 (1.18e-03) 2.0961e-02 (2.71e-03) - 3.9960e-02 (6.25e-03) - 2.8310e-02 (1.82e-03) - 2.7792e-02 (7.27e-03) - CEC19-MaTMO5-T46 1.2653e-02 (1.18e-03) 2.0961e-02 (2.71e-03) - 3.9960e-02 (6.25e-03) - 2.8310e-02 (1.24e-03) - 2.7792e-02 (7.27e-03) - CEC19-MaTMO5-T48 1.2320e-02 (8.60e-04) 2.1358e-02 (2.28e-03) - 3.9465e-02 (5.11e-03) - 2.8828e-02 (1.76e-03) - 2.8173e-02 (3.38e-02) - CEC19-MaTMO5-T48 1.2320e-02 (8.60e-04) 2.1358e-02 (2.28e-03) - 3.9465e-02 (5.11e-03) - 2.8828e-02 (1.77e-03) - 3.8055e-02 (3.38e-02) - CEC19-MaTMO5-T49 1.2273e-02 (8.60e-04) 2.1358e-02 (2.28e-03) - 3.9465e-02 (5.11e-03) - 2.8828e-02 (1.77e-03) - 3.8055e-02 (3.38e-02) - CEC19-MaTMO5-T49 1.2273e-02 (8.60e-04) 2.1358e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.8055e-02 (3.38e-02) - CEC19-MaTMO5-T50 1.2		` ,		` /	` /	. ,
CEC19-MaTMO5-T38						,
CEC19-MaTMO5-T40  1.231le-02 (1.01e-03)  2.0840e-02 (2.06e-03) - 3.8832e-02 (4.23e-03) - 2.9115e-02 (1.54e-03) - 3.3800e-02 (1.61e-02) - CEC19-MaTMO5-T40  1.231le-02 (1.10e-03)  2.1800e-02 (1.63e-03) - 3.9149e-02 (4.36e-03) - 2.8531e-02 (1.29e-03) - 2.6896e-02 (3.68e-03) - CEC19-MaTMO5-T41  1.2265e-02 (9.31e-04)  2.0815e-02 (1.80e-03) - 4.0018e-02 (4.72e-03) - 2.9075e-02 (2.01e-03) - 2.7580e-02 (9.35e-03) - CEC19-MaTMO5-T42  1.2541e-02 (1.05e-03)  2.1827e-02 (1.74e-03) - 4.0713e-02 (6.41e-03) - 2.8918e-02 (1.75e-03) - 4.9116e-02 (9.95e-02) - CEC19-MaTMO5-T43  1.2269e-02 (5.78e-04)  2.1549e-02 (2.28e-03) - 4.0518e-02 (9.52e-03) - 2.9172e-02 (1.81e-03) - 6.5327e-02 (1.64e-01) - CEC19-MaTMO5-T44  1.2391e-02 (1.10e-03)  2.1067e-02 (1.88e-03) - 3.8655e-02 (2.56e-03) - 2.9311e-02 (1.53e-03) - 2.6327e-02 (4.56e-03) - CEC19-MaTMO5-T45  1.1962e-02 (9.28e-04)  2.0457e-02 (1.87e-03) - 3.9845e-02 (3.26e-03) - 2.8310e-02 (1.82e-03) - 2.8358e-02 (7.01e-03) - CEC19-MaTMO5-T45  1.2659e-02 (1.81e-03) - 2.0961e-02 (2.71e-03) - 3.9960e-02 (6.25e-03) - 2.8310e-02 (1.76e-03) - 2.8358e-02 (7.01e-03) - CEC19-MaTMO5-T47  1.1944e-02 (8.91e-04) - 2.1070e-02 (1.63e-03) - 4.1650e-02 (5.43e-03) - 2.8466e-02 (1.24e-03) - 9.6662e-02 (2.01e-01) - CEC19-MaTMO5-T48  1.2320e-02 (8.60e-04) - 2.1358e-02 (2.28e-03) - 3.9465e-02 (5.11e-03) - 2.9541e-02 (1.98e-03) - 2.8173e-02 (6.66e-03) - CEC19-MaTMO5-T49  1.2273e-02 (8.64e-04) - 2.0982e-02 (1.82e-03) - 4.0362e-02 (6.27e-03) - 2.8828e-02 (1.77e-03) - 3.8055e-02 (3.38e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04) - 2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04) - 2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04) - 2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04) - 2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e	CEC19-MaTMO5-T37	( )		()	` /	` /
CEC19-MaTMO5-T40  1.2311e-02 (1.10e-03)  2.1800e-02 (1.63e-03) - 3.9149e-02 (4.36e-03) - 2.8531e-02 (1.29e-03) - 2.6896e-02 (3.68e-03) - 2.6896e-02 (3.68e-03) - 2.6896e-02 (3.68e-03) - 2.7580e-02 (9.35e-03) - 2.7580e-02 (1.63e-03) - 2.7580e-02 (1.63e-03) - 2.7580e-02 (1.75e-03) - 2.8580e-02 (1.75e-03) - 2.8580e-02 (1	CEC19-MaTMO5-T38	` ,	. ,	` /	` /	` /
CEC19-MaTMO5-T41  1.2265e-02 (9.31e-04)  2.0815e-02 (1.80e-03) - 4.0018e-02 (4.72e-03) - 2.9075e-02 (2.01e-03) - 2.7580e-02 (9.35e-03) - CEC19-MaTMO5-T42  1.2541e-02 (1.05e-03)  2.1827e-02 (1.74e-03) - 4.0713e-02 (6.41e-03) - 2.8918e-02 (1.75e-03) - 4.9116e-02 (9.95e-02) - CEC19-MaTMO5-T43  1.2269e-02 (5.78e-04)  2.1549e-02 (2.28e-03) - 4.0518e-02 (9.52e-03) - 2.9172e-02 (1.81e-03) - 6.5327e-02 (1.64e-01) - CEC19-MaTMO5-T44  1.2391e-02 (1.10e-03)  2.1067e-02 (1.88e-03) - 3.8655e-02 (2.56e-03) - 2.9311e-02 (1.53e-03) - 2.6327e-02 (4.56e-03) - CEC19-MaTMO5-T45  1.1962e-02 (9.28e-04)  2.09457e-02 (1.87e-03) - 3.98455e-02 (3.26e-03) - 2.8310e-02 (1.82e-03) - 2.8358e-02 (7.01e-03) - CEC19-MaTMO5-T45  1.2653e-02 (1.18e-03)  2.0961e-02 (2.71e-03) - 3.9960e-02 (6.25e-03) - 2.8391e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - CEC19-MaTMO5-T47  1.1944e-02 (8.91e-04)  2.1070e-02 (1.63e-03) - 4.1650e-02 (5.43e-03) - 2.8546e-02 (1.24e-03) - 9.6662e-02 (2.01e-01) - CEC19-MaTMO5-T48  1.2320e-02 (8.60e-04)  2.0982e-02 (1.82e-03) - 3.9465e-02 (6.27e-03) - 2.8828e-02 (1.77e-03) - 3.8055e-02 (3.38e-02) - CEC19-MaTMO5-T49  1.2273e-02 (8.64e-04)  2.0982e-02 (1.82e-03) - 4.0362e-02 (6.27e-03) - 2.8828e-02 (1.77e-03) - 3.8055e-02 (3.38e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04)  2.1534e-02 (2.00e-03) - 4.0362e-02 (6.27e-03) - 2.8828e-02 (1.77e-03) - 3.8055e-02 (3.38e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04)  2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04)  2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04)  2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04)  2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50	CEC19-MaTMO5-T39	` ′	` /	` /	` ` /	, ,
CEC19-MaTMO5-T42  1.2541e-02 (1.05e-03)  2.1827e-02 (1.74e-03) - 4.0713e-02 (6.41e-03) - 2.8918e-02 (1.75e-03) - 4.9116e-02 (9.95e-02) - CEC19-MaTMO5-T43  1.2269e-02 (5.78e-04)  2.1549e-02 (2.28e-03) - 4.0518e-02 (9.52e-03) - 2.9172e-02 (1.81e-03) - 6.5327e-02 (1.64e-01) - CEC19-MaTMO5-T44  1.2391e-02 (1.10e-03)  2.1067e-02 (1.88e-03) - 3.8655e-02 (2.56e-03) - 2.9311e-02 (1.53e-03) - 2.6327e-02 (4.56e-03) - CEC19-MaTMO5-T45  1.1962e-02 (9.28e-04)  2.0945re-02 (1.87e-03) - 3.9845e-02 (3.26e-03) - 2.8310e-02 (1.82e-03) - 2.8358e-02 (7.01e-03) - CEC19-MaTMO5-T46  1.2653e-02 (1.18e-03)  2.0961e-02 (2.71e-03) - 3.9960e-02 (6.25e-03) - 2.8391e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - CEC19-MaTMO5-T47  1.1944e-02 (8.91e-04)  2.1070e-02 (1.63e-03) - 3.9960e-02 (5.43e-03) - 2.8466e-02 (1.24e-03) - 9.6662e-02 (2.01e-01) - CEC19-MaTMO5-T48  1.2320e-02 (8.60e-04)  2.1358e-02 (2.28e-03) - 3.9465e-02 (5.11e-03) - 2.9541e-02 (1.98e-03) - 2.8173e-02 (6.66e-03) - CEC19-MaTMO5-T49  1.2273e-02 (8.64e-04)  2.0982e-02 (1.82e-03) - 4.0362e-02 (6.27e-03) - 2.8828e-02 (1.77e-03) - 3.8055e-02 (3.38e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04)  2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04)  2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50	CEC19-MaTMO5-T40			` /	` /	
CEC19-MaTMO5-T43  1.2269e-02 (5.78e-04)  2.1549e-02 (2.28e-03) - 4.0518e-02 (9.52e-03) - 2.9172e-02 (1.81e-03) - 6.5327e-02 (1.64e-01) - CEC19-MaTMO5-T44  1.2391e-02 (1.10e-03)  2.1067e-02 (1.88e-03) - 3.8655e-02 (2.56e-03) - 2.9311e-02 (1.53e-03) - 2.6327e-02 (4.56e-03) - CEC19-MaTMO5-T45  1.1962e-02 (9.28e-04)  2.0457e-02 (1.87e-03) - 3.9845e-02 (3.26e-03) - 2.8310e-02 (1.82e-03) - 2.8358e-02 (7.01e-03) - CEC19-MaTMO5-T46  1.2653e-02 (1.18e-03)  2.0961e-02 (2.71e-03) - 3.9960e-02 (6.25e-03) - 2.8310e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - CEC19-MaTMO5-T45  1.1944e-02 (8.91e-04)  2.1070e-02 (1.63e-03) - 4.1650e-02 (5.43e-03) - 2.8646e-02 (1.24e-03) - 9.6662e-02 (2.01e-01) - CEC19-MaTMO5-T48  1.2320e-02 (8.60e-04)  2.1358e-02 (2.28e-03) - 3.9465e-02 (5.11e-03) - 2.9541e-02 (1.98e-03) - 2.8173e-02 (3.38e-02) - CEC19-MaTMO5-T49  1.2273e-02 (8.64e-04)  2.0982e-02 (1.82e-03) - 4.0362e-02 (6.27e-03) - 2.8828e-02 (1.77e-03) - 3.8055e-02 (3.38e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04)  2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50  1.2419e-02 (8.68e-04)  2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) - CEC19-MaTMO5-T50	CEC19-MaTMO5-T41					
CEC19-MaTMO5-T44	CEC19-MaTMO5-T42	1.2541e-02 (1.05e-03)	2.1827e-02 (1.74e-03) -	4.0713e-02 (6.41e-03) -	2.8918e-02 (1.75e-03) -	4.9116e-02 (9.95e-02) -
CEC19-MaTM05-T45         1.1962e-02 (9.28e-04)         2.0457e-02 (1.87e-03) - 3.9845e-02 (3.26e-03) - 2.8310e-02 (1.82e-03) - 2.8358e-02 (7.01e-03) - 2.8358e-02 (7.01e-03) - 2.8358e-02 (7.01e-03) - 2.8358e-02 (7.01e-03) - 2.8391e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - 2.8391e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - 2.8391e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - 2.8391e-02 (1.76e-03) - 2.8391e-02 (1.76e-03) - 2.7792e-02 (7.27e-03) - 2.8391e-02 (1.76e-03) - 2.8391e-02 (1.76e-03) - 2.8391e-02 (1.76e-03) - 2.8466e-02 (1.24e-03) - 2.8466e-03 -	CEC19-MaTMO5-T43				( )	
CEC19-MaTMO5-T46  1.2653e-02 (1.18e-03)	CEC19-MaTMO5-T44	1.2391e-02 (1.10e-03)	2.1067e-02 (1.88e-03) -	3.8655e-02 (2.56e-03) -	2.9311e-02 (1.53e-03) -	2.6327e-02 (4.56e-03) -
CEC19-MaTM05-T47       1.1944e-02 (8.91e-04)       2.1070e-02 (1.63e-03) -       4.1650e-02 (5.43e-03) -       2.8646e-02 (1.24e-03) -       9.6662e-02 (2.01e-01) -         CEC19-MaTM05-T48       1.2320e-02 (8.60e-04)       2.1358e-02 (2.28e-03) -       3.9465e-02 (5.11e-03) -       2.9541e-02 (1.98e-03) -       2.8173e-02 (6.66e-03) -         CEC19-MaTM05-T49       1.2273e-02 (8.64e-04)       2.0982e-02 (1.82e-03) -       4.0362e-02 (6.27e-03) -       2.8828e-02 (1.77e-03) -       3.8055e-02 (3.38e-02) -         CEC19-MaTM05-T50       1.2419e-02 (8.68e-04)       2.1534e-02 (2.00e-03) -       4.0090e-02 (3.83e-03) -       2.9059e-02 (1.70e-03) -       3.5832e-02 (3.22e-02) -	CEC19-MaTMO5-T45		` /	` ` /	` ` /	` ′
CEC19-MaTM05-T48       1.2320e-02 (8.60e-04)       2.1358e-02 (2.28e-03) -       3.9465e-02 (5.11e-03) -       2.9541e-02 (1.98e-03) -       2.8173e-02 (6.66e-03) -         CEC19-MaTM05-T49       1.2273e-02 (8.64e-04)       2.0982e-02 (1.82e-03) -       4.0362e-02 (6.27e-03) -       2.8828e-02 (1.77e-03) -       3.8055e-02 (3.38e-02) -         CEC19-MaTM05-T50       1.2419e-02 (8.68e-04)       2.1534e-02 (2.00e-03) -       4.0090e-02 (3.83e-03) -       2.9059e-02 (1.70e-03) -       3.5832e-02 (3.22e-02) -	CEC19-MaTMO5-T46	1.2653e-02 (1.18e-03)	2.0961e-02 (2.71e-03) -	3.9960e-02 (6.25e-03) -	2.8391e-02 (1.76e-03) -	2.7792e-02 (7.27e-03) -
CEC19-MaTMO5-T49	CEC19-MaTMO5-T47	1.1944e-02 (8.91e-04)	2.1070e-02 (1.63e-03) -	4.1650e-02 (5.43e-03) -	2.8646e-02 (1.24e-03) -	9.6662e-02 (2.01e-01) -
CEC19-MaTMO5-T50 <b>1.2419e-02</b> ( <b>8.68e-04</b> ) 2.1534e-02 (2.00e-03) - 4.0090e-02 (3.83e-03) - 2.9059e-02 (1.70e-03) - 3.5832e-02 (3.22e-02) -	CEC19-MaTMO5-T48	1.2320e-02 (8.60e-04)	2.1358e-02 (2.28e-03) -	3.9465e-02 (5.11e-03) -	2.9541e-02 (1.98e-03) -	2.8173e-02 (6.66e-03) -
	CEC19-MaTMO5-T49	1.2273e-02 (8.64e-04)	2.0982e-02 (1.82e-03) -	4.0362e-02 (6.27e-03) -	2.8828e-02 (1.77e-03) -	3.8055e-02 (3.38e-02) -
+/-/= Base 0/50/0 0/50/0 0/50/0 0/50/0	CEC19-MaTMO5-T50	1.2419e-02 (8.68e-04)	2.1534e-02 (2.00e-03) -	4.0090e-02 (3.83e-03) -	2.9059e-02 (1.70e-03) -	3.5832e-02 (3.22e-02) -
	+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0

TABLE S46

COMPARISON OF KR-MTGA, MATGA, MO-SBO, MO-MFEA, AND NSGA-II IN TERMS OF THE MEAN AND STANDARD DEVIATION (IN BRACKETS) OF THE BEST-ACHIEVED IGD OVER 20 RUNS W.R.T. EACH COMPONENT TASK IN CEC19-MATMO6 IN TEST SUITE 3. THE LAST ROW SHOWS A SUMMARY OF STATISTICALLY COMPARING KR-MTGA(CONTROL METHOD) WITH EACH OF THE OTHERS VIA WILCOXON'S RANK-SUM TEST, WITH THE RESULT REPRESENTED BY ("+/-/="), OVER ALL 50 COMPONENT TASKS IN CEC19-MATMO6 IN TEST SUITE 3.

KR-MTEA						
CECI9MATMO6-T2					_	
CEC19-MaTMO6-13   3.4228-02 (9.95e-03)   1.6886-01 (6.16-02)   3.5501c-01 (6.23-02)   2.7772-01 (3.68-02)   2.7702-02   2.7702-02   2.7602-02   7.7602-01 (2.86-01)   2.86-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.86-02)   2.7702-01 (2.7802-01 (2.86-02)   2.7702-01 (2.7802-01 (2.86-02)   2.7702-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01 (2.7802-01					( ,	` /
CEC19MaTM06-T5				\ /	\ /	
ECEP MaTMOG-T6		(,				( )
CEC19-MaTMOG-TF   \$5.684e-03 (1.685e-04)   1.5488e-01 (3.98e-02)   3.6938e-01 (2.69e-02)   2.874e-01 (2.34e-02)   1.989e-01 (1.38e-01)   CEC19-MaTMOG-TS   \$8.526e-03 (7.30e-04)   1.785e-01 (3.98e-02)   3.6259e-01 (4.35e-02)   2.874e-01 (2.63e-02)   1.969e-01 (1.78e-02)   CEC19-MaTMOG-TS   \$8.526e-03 (7.30e-04)   1.6736e-01 (5.24e-02)   3.494e-01 (3.95e-02)   2.2806a-01 (3.97e-02)   1.5817e-01 (1.86e-01)   CEC19-MaTMOG-TS   3.866e-03 (7.31e-04)   1.6736e-01 (5.24e-02)   3.494e-01 (3.95e-02)   2.2806a-01 (3.97e-02)   2.2400e-01 (2.88e-01)   CEC19-MaTMOG-TS   3.816e-02 (1.14e-02)   1.7711e-01 (3.03e-02)   3.4718e-01 (5.29e-02)   2.7882e-01 (2.78e-02)   2.2806a-01 (3.97e-02)   2.2806a-01 (3.97e-		( ,				
CECI9MaTMO6-TF   33615-02 (1.07-02)		` ′	` /	` '	` ′	1.8846e-01 (3.39e-01) -
CEC19-MaTMOG-T9					( )	
CEC19MaTM06-T19   3.2669-02 (1.148-02)   1.6736-01 (6.24e-02)   3.4934-01 (3.95-02)   2.27506-01 (3.14e-02)   1.5817-01 (1.866-01)   CEC19-MaTM06-T11   3.8169-02 (1.148-02)   1.6736-01 (5.24e-02)   3.4578-01 (5.29-02)   2.8036-01 (3.97e-02)   2.24000-01 (2.88-01)   CEC19-MaTM06-T12   3.8169-02 (1.148-02)   1.7171-01 (4.71e-02)   3.4718-01 (5.99-02)   2.7852-01 (2.78-02)   1.2894-01 (2.81e-02)   CEC19-MaTM06-T13   3.1663-02 (1.040-02)   1.8340-01 (4.71e-02)   3.4718-01 (5.99-02)   2.8364-01 (3.04e-02)   1.2894-01 (2.81e-02)   CEC19-MaTM06-T13   3.1565-02 (1.080-02)   1.8840-01 (4.71e-02)   3.6639-01 (4.15e-02)   2.7352-01 (2.80e-02)   1.8800-01 (2.81e-02)   CEC19-MaTM06-T15   3.5552-02 (1.080-02)   1.8850-01 (4.24e-02)   3.6639-01 (4.080-02)   2.7352-01 (2.80e-02)   1.8800-01 (2.81e-02)   CEC19-MaTM06-T15   3.5552-02 (1.080e-03)   1.6800-02   1.4800-02   3.57500-01 (3.060-02)   2.2752-01 (2.80e-02)   1.8800-01 (2.81e-01)   CEC19-MaTM06-T16   3.6422-03 (7.80e-04)   1.6072-01 (4.83e-02)   3.5200-01 (3.99-02)   2.7527-01 (2.80e-02)   1.4819-01 (1.79e-01)   CEC19-MaTM06-T17   3.2460-02 (8.96e-04)   1.6072-01 (3.97e-02)   3.6992-01 (4.70e-02)   2.9395-01 (3.26e-02)   1.8737-01 (2.88-01)   CEC19-MaTM06-T19   3.459-02 (9.97e-03)   1.5527-01 (4.95e-02)   3.6992-01 (4.70e-02)   2.9395-01 (3.26e-02)   1.8737-01 (2.88-01)   CEC19-MaTM06-T19   3.459-02 (9.97e-03)   1.5527-01 (4.05e-02)   3.3612-01 (3.90-02)   2.8813-01 (3.33e-02)   2.2321-01 (3.29-01)   CEC19-MaTM06-T22   3.8666-03 (8.88-04)   1.6892-01 (3.99-02)   2.8813-01 (3.33e-02)   2.2321-01 (3.29-01)   CEC19-MaTM06-T22   3.8666-03 (8.88-04)   1.6892-01 (3.89-02)   3.3612-01 (3.99-02)   2.6992-01 (3.99-02)   2.2012-01 (2.91-01)   CEC19-MaTM06-T22   3.8686-03 (8.680-04)   1.6892-01 (3.89-02)   3.3612-01 (3.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.99-02)   2.2751-01 (2.9			( , , , , , , , , , , , , , , , , , , ,			
CECI9-MaTMO6-TI1		/				` ,
CECIPMaTMO6-TI1   3.8169-e02 (1.14e-02)   1.7713e-01 (5.08-02)   3.3715e-01 (5.29e-02)   2.7882e-01 (2.78e-02)   1.2394e-01 (2.81e-02)   CECIPMATMO6-TI3   3.1856-02 (1.04e-02)   1.8340e-01 (4.38e-02)   3.7415e-01 (3.99e-02)   2.2733e-01 (3.74e-02)   1.4890e-01 (1.45e-01)   CECIPMATMO6-TI3   3.1856-02 (1.04e-02)   1.8340e-01 (4.38e-02)   3.6825e-01 (4.13e-02)   2.733e-01 (3.74e-02)   1.4890e-01 (1.45e-01)   CECIPMATMO6-TI3   3.3155e-02 (1.08e-02)   1.7856e-01 (3.44e-02)   3.5750e-01 (3.59e-02)   2.7352e-01 (2.28e-02)   1.6089e-01 (1.99e-01)   CECIPMATMO6-TI5   3.494e-02   1.8602e-01 (4.38e-02)   3.5750e-01 (3.59e-02)   2.7527e-01 (2.68e-02)   1.6089e-01 (1.99e-01)   CECIPMATMO6-TI6   3.494e-02   1.6089e-01 (4.38e-02)   3.6026e-01 (3.99e-02)   2.7527e-01 (2.68e-02)   1.8737e-01 (2.38e-02)   CECIPMATMO6-TI6   3.494e-02   3.6026e-01 (3.99e-02)   3.6026e-01 (3.99e-02)   2.7527e-01 (2.68e-02)   1.8737e-01 (2.38e-01)   CECIPMATMO6-TI0   3.4959e-02 (9.0769-01)   3.6026e-01 (3.99e-02)   3.6026e-01 (3.99e-0				( , , , , , , , , , , , , , , , , , , ,	( )	
CECI9-MaTMO6-T12						
CEC19-MaTMO6-T14						
CECI9-MaTMO6-T14   9.0266-03 (1.58e-03)   1.6440e-01 (4.24e-02)   2.36639e-01 (4.16e-02)   2.7362e-01 (2.28e-02)   1.8060e-01 (2.81e-01)   CECI9-MaTMO6-T16   8.6423e-03 (7.89e-04)   1.8602e-01 (4.83e-02)   3.6206e-01 (3.99e-02)   2.7527e-01 (2.68e-02)   1.4819e-01 (1.79e-01)   CECI9-MaTMO6-T17   3.2946e-02 (8.96e-03)   1.6276e-01 (3.66e-02)   3.8051e-01 (5.00e-02)   2.8497e-01 (3.78e-02)   1.2152e-01 (2.35e-02)   CECI9-MaTMO6-T18   8.6232e-03 (7.89e-04)   1.6106e-01 (3.07e-02)   3.6905e-01 (4.70e-02)   2.8497e-01 (3.78e-02)   1.2152e-01 (2.35e-02)   CECI9-MaTMO6-T19   3.2459e-02 (9.07e-03)   1.5627e-01 (3.97e-02)   3.6905e-01 (4.58e-02)   2.6481e-01 (2.94e-02)   1.9105e-01 (2.23e-01)   CECI9-MaTMO6-T29   3.6905e-01 (3.6905e-01 (3.89e-02)   3.7611e-01 (3.99e-02)   2.8481e-01 (2.94e-02)   1.9105e-01 (2.23e-01)   CECI9-MaTMO6-T29   3.7366e-02 (1.01e-02)   1.6893e-01 (4.09e-02)   3.7611e-01 (4.30e-02)   2.8813e-01 (3.33e-02)   1.5685e-01 (1.67e-01)   CECI9-MaTMO6-T23   3.766e-03 (3.98e-03)   3.8690e-01 (3.99e-02)   3.5617e-01 (3.89e-02)   2.8695e-01 (3.33e-02)   1.5685e-01 (1.67e-01)   CECI9-MaTMO6-T23   3.2161e-02 (8.18e-03)   1.6507e-01 (4.89e-02)   3.5617e-01 (4.98e-02)   2.6992e-01 (2.66e-02)   1.6935e-01 (4.88e-01)   CECI9-MaTMO6-T23   3.2692e-02 (9.18e-03)   1.5697e-01 (3.89e-02)   3.5617e-01 (3.99e-02)   2.2992e-01 (2.66e-02)   1.6935e-01 (4.88e-01)   CECI9-MaTMO6-T24   8.4552e-03 (7.02e-04)   1.6312e-01 (3.78e-02)   3.5327e-01 (4.07e-02)   2.7851e-01 (2.79e-02)   1.6935e-01 (4.89e-02)   2.8586e-01 (3.99e-02)   2.7851e-01 (2.79e-02)   1.6935e-01 (3.99e-02)   2.6602e-01 (3.79e-01)   CECI9-MaTMO6-T25   8.6688e-03 (6.66e-04)   1.7099e-01 (4.13e-02)   3.5327e-01 (5.59e-02)   2.7330e-01 (2.50e-02)   1.6936e-01 (3.79e-01)   CECI9-MaTMO6-T28   8.6180e-03 (6.74e-04)   1.7322e-01 (4.02e-02)   3.8736e-01 (5.59e-02)   2.7330e-01 (2.50e-02)   2.6602e-01 (3.79e-01)   CECI9-MaTMO6-T32   8.6696e-03 (6.74e-04)   1.7322e-01 (4.09e-02)   3.8736e-01 (5.59e-02)   2.7350e-01 (2.50e-02)   2.7350e-01 (2.50e-02)   2.7350e-01 (2.5				( , , , , , , , , , , , , , , , , , , ,	( , , ,	
ECCI9-MaTMO6-T16					( , , ,	
EEC19-MaTMO6-T17   3.2946-02 (8.96c-03)   1.8602-01 (4.83-0.92)   3.5206-01 (3.99-0.92)   2.7527-01 (2.68-0.92)   1.4819-01 (1.79-0.11)		` ′	` /	` '	` ′	`
CEC19-MaTM06-T17   3,2946e-02 (9.6-03)   1,6276e-01 (3.07e-02)   3,8051e-01 (5.00e-02)   2,8497e-01 (3.78e-02)   1,273e-01 (2.38e-01)   CEC19-MaTM06-T19   3,2459e-02 (9.07e-03)   1,5627e-01 (3.07e-02)   3,6995e-01 (4.70e-02)   2,9395e-01 (3.26e-02)   1,8737e-01 (2.38e-01)   CEC19-MaTM06-T20   8,3602e-03 (8,34e-04)   1,6772e-01 (4.05e-02)   3,7611e-01 (4.30e-02)   2,8481e-01 (9.94e-02)   1,253e-01 (1.23e-01)   CEC19-MaTM06-T21   3,3736e-02 (1.01e-02)   1,6898e-01 (4.90e-02)   3,7611e-01 (4.30e-02)   2,8895e-01 (3.33e-02)   2,2321e-01 (3.29e-01)   CEC19-MaTM06-T22   3,3736e-02 (1.01e-02)   1,6898e-01 (3.29e-02)   3,7611e-01 (4.30e-02)   2,8695e-01 (3.39e-02)   1,5685e-01 (1.67e-01)   CEC19-MaTM06-T23   3,2161e-02 (8,18e-03)   1,6507e-01 (4,89e-02)   3,4871e-01 (3,99e-02)   2,6437e-01 (3,99e-02)   1,5935e-01 (1,88e-01)   CEC19-MaTM06-T23   3,2161e-02 (8,18e-03)   1,6507e-01 (4,89e-02)   3,4871e-01 (3,99e-02)   2,7436e-01 (3,79e-02)   1,1284e-01 (2,11e-02)   CEC19-MaTM06-T25   3,6292e-02 (9,18e-03)   1,5400e-01 (3,21e-02)   3,5327e-01 (4,67e-02)   2,7436e-01 (2,74e-02)   1,1284e-01 (2,11e-02)   CEC19-MaTM06-T25   3,6292e-02 (9,18e-03)   1,5692e-01 (3,57e-02)   3,5856e-01 (5,60e-02)   2,734e-01 (2,50e-02)   2,6602e-01 (3,79e-01)   CEC19-MaTM06-T27   3,5528e-02 (9,57e-03)   1,6682e-01 (3,57e-02)   3,5856e-01 (5,59e-02)   2,734e-01 (2,50e-02)   2,6602e-01 (3,79e-01)   CEC19-MaTM06-T28   8,6180e-03 (6,74e-04)   1,7322e-01 (4,02e-02)   3,5836e-01 (5,60e-02)   2,734e-01 (2,50e-02)   2,3356e-01 (3,99e-01)   CEC19-MaTM06-T29   3,6229e-02 (1,12e-02)   1,744e-01 (3,05e-02)   3,883e-01 (6,72e-02)   2,734e-01 (2,50e-02)   2,344e-01 (3,09e-01)   CEC19-MaTM06-T39   3,6629e-02 (1,12e-03)   1,744e-01 (3,05e-02)   3,883e-01 (6,72e-02)   2,714e-01 (2,28e-02)   1,9486e-01 (2,56e-01)   CEC19-MaTM06-T39   3,4659e-01 (3,59e-02)   1,5486e-01 (3,59e-02)   2,5398e-01 (1,69e-02)   2,5398e-01 (1,69e-02)   1,5486e-01 (2,58e-01)   CEC19-MaTM06-T39   3,4659e-01 (3,59e-04)   1,539e-01 (3,59e-02)   3,5398e-01 (3,59e-02)   2,739e-01 (3,09e-02)						
CEC19-MaTM06-T18   8.6232e-03 (7.96e-04)   1.6106e-01 (3.07e-02)   3.6995e-01 (4.70e-02)   2.9995e-01 (3.26e-02)   1.8737e-01 (2.88e-01)   CEC19-MaTM06-T20   3.3459e-02 (9.07e-03)   1.5627e-01 (3.07e-02)   3.6276e-01 (5.58e-02)   2.6481e-01 (2.94e-02)   1.9105e-01 (2.23e-01)   CEC19-MaTM06-T21   3.3736e-02 (1.01e-02)   1.6993e-01 (4.05e-02)   3.3285e-01 (3.88e-02)   2.8813e-01 (3.33e-02)   1.5685e-01 (1.67e-01)   CEC19-MaTM06-T22   3.3736e-02 (1.01e-02)   1.6893e-01 (4.69e-02)   3.4285e-01 (3.88e-02)   2.6437e-01 (3.99e-02)   2.0701e-01 (2.91e-01)   CEC19-MaTM06-T23   3.2161e-02 (8.18e-03)   1.6507e-01 (4.89e-02)   3.4871e-01 (3.99e-02)   2.6437e-01 (3.99e-02)   2.0701e-01 (2.91e-01)   CEC19-MaTM06-T23   3.2161e-02 (8.18e-03)   1.6302e-01 (3.78e-02)   3.4871e-01 (3.99e-02)   2.6437e-01 (3.99e-02)   1.9935e-01 (1.88e-01)   CEC19-MaTM06-T23   3.6292e-02 (9.18e-03)   1.6302e-01 (3.78e-02)   3.3871e-01 (3.99e-02)   2.7851e-01 (2.74e-02)   1.1284e-01 (2.11e-02)   CEC19-MaTM06-T25   3.6292e-02 (9.18e-03)   1.5400e-01 (3.21e-02)   3.3537e-01 (4.67e-02)   2.7341e-01 (2.70e-02)   1.7930e-01 (2.61e-01)   CEC19-MaTM06-T25   3.6292e-02 (9.18e-03)   1.7099e-01 (4.13e-02)   3.5586e-01 (5.93e-02)   2.7341e-01 (2.50e-02)   2.6602e-01 (3.07e-01)   CEC19-MaTM06-T25   3.6292e-02 (9.18e-03)   1.7651e-01 (4.84e-02)   2.2844e-01 (3.09e-02)   2.8413e-01 (3.04e-02)   2.044e-01 (3.07e-01)   CEC19-MaTM06-T29   3.6526e-02 (1.12e-02)   1.7651e-01 (4.84e-02)   3.6631e-01 (4.94e-02)   2.7714e-01 (2.28e-02)   3.3365e-01 (3.07e-01)   CEC19-MaTM06-T30   3.4605e-03 (9.61e-04)   1.6326e-01 (4.69e-02)   3.6805e-03 (1.67e-02)   2.7114e-01 (2.28e-02)   2.4374e-01 (3.99e-01)   CEC19-MaTM06-T33   3.4692e-01 (3.12e-03)   1.4692e-02   3.3603e-01 (4.94e-02)   2.7114e-01 (2.28e-02)   2.94374e-01 (3.99e-02)   2.7146e-01 (3.99e-02)   2.7146e-01 (3.99e-02)   2.7146e-01 (3.99e-02)   2.7146e-01 (3.99e-02)   2.7146e-01 (3.99e-02)   2.7146e-01 (2.99e-02)   2.7146e-01 (2.99e-02)   2.7146e-01 (2.99e-02)   2.7146e-01 (2.99e-02)   2.7146e-01 (2.99e-02)   2.7146e-					,	,
EEC19-MaTM06-T29			` /	` '	` ′	
CEC19-MaTM06-T21   3.3736c-02 (1.01e-02)   1.6893e-01 (4.05e-02)   3.7611e-01 (4.30e-02)   2.8813e-01 (3.33e-02)   2.2321e-01 (3.29e-01)   CEC19-MaTM06-T22   3.3736e-02 (1.01e-02)   1.6893e-01 (4.69e-02)   3.4285e-01 (3.88e-02)   2.6695e-01 (3.33e-02)   1.5685e-01 (1.67e-01)   CEC19-MaTM06-T23   3.2161e-02 (8.18e-03)   1.6507e-01 (4.89e-02)   3.4871e-01 (3.99e-02)   2.6992e-01 (2.66e-02)   1.6935e-01 (1.88e-01)   CEC19-MaTM06-T23   3.2161e-02 (8.18e-03)   1.5600e-01 (3.21e-02)   3.6527e-01 (4.77e-02)   2.7855e-01 (2.74e-02)   1.1284e-01 (2.11e-02)   CEC19-MaTM06-T24   8.4552e-03 (7.02e-04)   1.6312e-01 (3.78e-02)   3.6524e-01 (4.77e-02)   2.7855e-01 (2.74e-02)   1.7990e-01 (2.64e-01)   CEC19-MaTM06-T25   3.6292e-02 (9.18e-03)   1.5400e-01 (3.12e-02)   3.5327e-01 (4.67e-02)   2.7734e-01 (2.70e-02)   1.7990e-01 (2.64e-01)   CEC19-MaTM06-T23   3.528e-02 (9.57e-03)   1.6682e-01 (3.57e-02)   3.3587e-01 (5.96e-02)   2.2814e-01 (2.70e-02)   1.7990e-01 (2.64e-01)   CEC19-MaTM06-T23   3.5528e-02 (9.57e-03)   1.6682e-01 (3.57e-02)   3.8983e-01 (5.96e-02)   2.2814e-01 (3.69e-02)   2.6602e-01 (3.79e-01)   CEC19-MaTM06-T29   3.6526e-02 (1.12e-02)   1.7551e-01 (4.84e-02)   3.6838e-01 (4.94e-02)   2.7714e-01 (2.28e-02)   3.3652e-01 (3.98e-01)   CEC19-MaTM06-T30   3.6526e-02 (1.12e-02)   1.7651e-01 (4.84e-02)   3.6838e-01 (4.94e-02)   2.7714e-01 (2.28e-02)   2.344e-01 (3.92e-01)   CEC19-MaTM06-T30   3.4869e-02 (7.12e-02)   1.7441e-01 (2.86e-02)   3.4244e-01 (3.90e-02)   2.755e-01 (3.99e-02)   2.486e-01 (2.58e-01)   CEC19-MaTM06-T33   3.4869e-02 (7.12e-02)   1.7441e-01 (2.86e-02)   3.6806e-01 (5.97e-02)   2.755e-01 (3.99e-02)   1.9486e-01 (2.88e-01)   CEC19-MaTM06-T33   3.4869e-02 (7.12e-02)   1.6902e-01 (4.96e-02)   3.6806e-01 (5.97e-02)   2.7600e-01 (2.78e-02)   1.9486e-01 (2.88e-01)   CEC19-MaTM06-T33   3.486e-02 (3.98e-04)   1.5340e-01 (3.89e-02)   3.5936e-01 (3.99e-02)   2.7600e-01 (3.89e-02)   1.6902e-01 (3.99e-01)   1.6902e-01 (3.89e-02)   3.6902e-01 (3.99e-02)   3.6902e-01 (3.99e-02)   3.6902e-01 (3.99e-02)   3.6902e-			( , , , , , , , , , , , , , , , , , , ,	( ,	( , , , ,	
CEC19-MaTM06-T21   3.3736e-02 (1.01e-02)   1.6898e-01 (4.69e-02)   3.4285e-01 (3.88e-02)   2.8695e-01 (3.33e-02)   1.5685e-01 (1.67e-01)   CEC19-MaTM06-T22   3.266e-03 (8.58e-04)   1.5686e-01 (3.29e-02)   3.5617e-01 (4.82e-02)   2.6437e-01 (3.99e-02)   2.0701e-01 (2.91e-01)   CEC19-MaTM06-T23   3.2161e-02 (8.18e-03)   1.6507e-01 (4.89e-02)   3.8871e-01 (3.99e-02)   2.6992e-01 (2.66e-02)   1.6935e-01 (1.88e-01)   CEC19-MaTM06-T24   8.4552e-03 (7.02e-04)   1.6312e-01 (3.78e-02)   3.6654e-01 (4.77e-02)   2.7855e-01 (2.74e-02)   1.1284e-01 (2.11e-02)   CEC19-MaTM06-T25   3.6292e-02 (9.18e-03)   1.5400e-01 (3.21e-02)   3.5536e-01 (5.93e-02)   2.7541e-01 (2.70e-02)   1.7930e-01 (2.64e-01)   CEC19-MaTM06-T26   8.5688e-03 (6.66e-04)   1.7099e-01 (4.15e-02)   3.5536e-01 (5.93e-02)   2.7541e-01 (2.70e-02)   1.7930e-01 (2.64e-01)   CEC19-MaTM06-T27   3.5528e-02 (9.57e-03)   1.6682e-01 (3.57e-02)   3.8746e-01 (5.93e-02)   2.8143e-01 (3.64e-02)   2.1044e-01 (3.07e-01)   CEC19-MaTM06-T28   8.6180e-03 (6.74e-04)   1.7322e-01 (4.02e-02)   3.5938e-01 (6.72e-02)   2.7714e-01 (2.28e-02)   1.9638e-01 (2.56e-01)   CEC19-MaTM06-T39   3.6626e-02 (1.12e-02)   1.7651e-01 (4.84e-02)   3.6631e-01 (4.94e-02)   2.7714e-01 (2.28e-02)   1.9638e-01 (2.56e-01)   CEC19-MaTM06-T30   8.4626e-03 (1.12e-03)   1.7441e-01 (2.86e-02)   3.6805e-01 (3.97e-02)   2.7555e-01 (2.73e-02)   1.9486e-01 (3.92e-01)   CEC19-MaTM06-T33   3.4659e-02 (7.23e-03)   1.5460e-01 (3.68e-02)   3.9424e-01 (3.90e-02)   2.7610e-01 (2.73e-02)   1.9486e-01 (2.18e-02)   CEC19-MaTM06-T33   3.4659e-02 (7.23e-03)   1.5460e-01 (3.68e-02)   3.5933e-01 (3.59e-02)   2.7560e-01 (2.73e-02)   1.7640e-01 (2.13e-01)   CEC19-MaTM06-T33   8.6030e-03 (9.54e-04)   1.7196e-01 (3.68e-02)   3.5933e-01 (3.59e-02)   2.7900e-01 (3.09e-02)   1.7640e-01 (2.13e-01)   CEC19-MaTM06-T33   8.6030e-03 (9.54e-04)   1.796e-01 (3.68e-02)   3.5933e-01 (3.59e-02)   2.7900e-01 (3.09e-02)   1.7640e-01 (2.13e-01)   CEC19-MaTM06-T33   8.6030e-03 (9.54e-04)   1.5340e-01 (3.68e-02)   3.6930e-01 (3.54e-02)   2.8932e-0			( , , , , , , , , , , , , , , , , , , ,	(		
CEC19-MaTM06-T22   8.3686e-03 (8.58e-04)   1.5086e-01 (3.29e-02) -   3.5617e-01 (4.82e-02) -   2.6992e-01 (2.66e-02) -   2.0791e-01 (2.91e-01) -   CEC19-MaTM06-T23   3.2161e-02 (8.18e-03)   1.6507e-01 (4.89e-02) -   3.4871e-01 (3.99e-02) -   2.6992e-01 (2.66e-02) -   1.6935e-01 (1.88e-01) -   CEC19-MaTM06-T25   8.4552e-03 (7.02e-04)   1.6312e-01 (3.78e-02) -   3.6654e-01 (4.77e-02) -   2.7855e-01 (2.74e-02) -   1.6935e-01 (1.88e-01) -   CEC19-MaTM06-T25   8.6588e-03 (6.66e-04)   1.7099e-01 (4.13e-02) -   3.5532e-01 (4.67e-02) -   2.7541e-01 (2.70e-02) -   1.7930e-01 (2.64e-01) -   CEC19-MaTM06-T26   8.5688e-03 (6.66e-04)   1.7099e-01 (4.13e-02) -   3.5532e-02 -   2.7340e-01 (2.50e-02) -   2.6602e-01 (3.79e-01) -   CEC19-MaTM06-T27   3.5528e-02 (9.57e-03)   1.6682e-01 (3.57e-02) -   3.8746e-01 (5.60e-02) -   2.7340e-01 (2.50e-02) -   2.6002e-01 (3.79e-01) -   CEC19-MaTM06-T28   8.6180e-03 (6.74e-04)   1.7322e-01 (4.02e-02) -   3.8593e-01 (5.79e-02) -   2.7329e-01 (2.26e-02) -   3.365e-01 (3.98e-01) -   CEC19-MaTM06-T29   8.6405e-03 (9.61e-04)   1.6326e-01 (4.60e-02) -   3.6806e-01 (4.67e-02) -   2.7714e-01 (2.28e-02) -   3.365e-01 (3.99e-01) -   CEC19-MaTM06-T30   8.4605e-03 (9.61e-04)   1.6326e-01 (4.60e-02) -   3.6806e-01 (5.97e-02) -   2.7714e-01 (2.28e-02) -   2.4374e-01 (3.92e-01) -   CEC19-MaTM06-T33   9.1023e-03 (1.12e-03)   1.7148e-01 (4.05e-02) -   3.8606e-01 (5.97e-02) -   2.7155e-01 (2.73e-02) -   1.0854e-01 (2.18e-02) -   CEC19-MaTM06-T33   9.1023e-03 (1.12e-03)   1.7148e-01 (3.68e-02) -   3.9034e-01 (4.94e-02) -   2.9555e-01 (3.09e-02) -   1.9846e-01 (2.18e-02) -   CEC19-MaTM06-T33   3.4059e-02 (2.102e-02)   1.6946e-01 (4.06e-02) -   3.9034e-01 (4.94e-02) -   2.9555e-01 (3.09e-02) -   1.9846e-01 (2.18e-02) -   CEC19-MaTM06-T33   3.4059e-02 (2.102e-02)   1.6940e-01 (3.68e-02) -   3.9034e-01 (4.94e-02) -   2.9555e-01 (3.09e-02) -   1.9846e-01 (2.18e-02) -   CEC19-MaTM06-T34   8.6030e-03 (9.54e-04)   1.5340e-01 (3.68e-02) -   3.36450e-01 (3.84e-02) -   2.9604e-01 (3.09e-02) -   1.5388e-01 (1.69e-01)	CEC19-MaTMO6-T20	8.3602e-03 (8.34e-04)	1.6772e-01 (4.05e-02) -	3.7611e-01 (4.30e-02) -	2.8813e-01 (3.33e-02) -	2.2321e-01 (3.29e-01) -
CECI9-MaTMO6-T23   3.2161-02 (8.18-03)   1.6507-01 (4.89-02) -   3.4871-01 (3.99-02)   2.6992-01 (2.66-02) -   1.6935-01 (1.88-01) -   CECI9-MaTMO6-T24   8.4552-03 (7.02-04)   1.6312-01 (3.78-02) -   3.6554-01 (4.77-02) -   2.7855-01 (2.74-02) -   1.1284-01 (2.11-02) -   CECI9-MaTMO6-T25   3.6292-02 (9.18-03)   1.5400-01 (3.21-02) -   3.5327-01 (4.67-02) -   2.7541-01 (2.70-02) -   1.7930-01 (2.64-01) -   CECI9-MaTMO6-T26   8.5688-03 (6.66-04)   1.7099-01 (4.13-02) -   3.55260-02 -   2.7340-01 (2.50-02) -   2.6602-01 (3.79-01) -   CECI9-MaTMO6-T27   3.5528-02 (9.57-03)   1.6682-01 (3.57-02) -   3.8746-01 (5.00-02) -   2.8143-01 (3.64-02) -   2.1044-01 (3.07-01) -   CECI9-MaTMO6-T28   8.6180-03 (6.74e-04)   1.7322-01 (4.02-02) -   3.5983-01 (6.72-02) -   2.73390-01 (2.26-02) -   3.3658-01 (3.98-01) -   CECI9-MaTMO6-T29   3.6526-02 (1.12-02)   1.76510-01 (4.800-02) -   3.68320-01 (4.70-02) -   2.7140-01 (2.280-02) -   1.9638-01 (2.56-01) -   CECI9-MaTMO6-T30   8.4605-03 (9.61e-04)   1.6326-01 (4.60e-02) -   3.68232-01 (4.60-02) -   2.8518-01 (2.43-02) -   2.4374-01 (3.92-01) -   CECI9-MaTMO6-T31   3.2629-02 (1.12-02)   1.7441-01 (2.860-02) -   3.68050-1 (9.59-02) -   2.71550-01 (2.73-02) -   1.0854-01 (2.18-02) -   CECI9-MaTMO6-T32   9.1023-03 (1.12e-03)   1.7440-01 (4.05-02) -   3.3938-01 (4.90-02) -   2.75150-01 (2.73-02) -   1.98460-01 (2.18-02) -   CECI9-MaTMO6-T33   3.4059-02 (7.23e-03)   1.5460-01 (3.59-02) -   3.3938-01 (4.94-02) -   2.95550-01 (3.09-02) -   1.7640-01 (2.13-01) -   CECI9-MaTMO6-T35   8.6030-03 (9.54e-04)   1.5340-01 (3.680-02) -   3.5938-01 (4.410-02) -   2.5400-01 (3.00-02) -   1.59340-01 (2.550-01) -   CECI9-MaTMO6-T35   3.35450-02 (1.02-02)   1.66940-01 (4.01-02) -   3.64500-01 (5.840-02) -   2.74040-01 (1.030-02) -   1.53880-01 (1.030-01) -   CECI9-MaTMO6-T36   8.6030-03 (9.54e-04)   1.5340-01 (3.14-02) -   3.59380-01 (4.410-02) -   2.74040-01 (1.030-02) -   1.53880-01 (1.050-01) -   CECI9-MaTMO6-T37   3.53860-01 (3.14-02) -   3.69360-01 (4.410-02) -   2.85360-01 (3.00-02) -   1.5388	CEC19-MaTMO6-T21	3.3736e-02 (1.01e-02)		3.4285e-01 (3.88e-02) -	2.8695e-01 (3.33e-02) -	1.5685e-01 (1.67e-01) -
CEC19-MaTMO6-T24		8.3686e-03 (8.58e-04)				
CEC19-MaTMO6-T25   3.6292e-02 (9.18e-03)   1.5400e-01 (3.21e-02)   3.5327e-01 (4.67e-02)   2.7541e-01 (2.70e-02)   1.7930e-01 (2.64e-01)   CEC19-MaTMO6-T26   8.5688e-03 (6.66e-04)   1.7099e-01 (4.13e-02)   3.5586e-01 (5.93e-02)   2.7340e-01 (2.50e-02)   2.6602e-01 (3.79e-01)   CEC19-MaTMO6-T27   3.5528e-02 (9.57e-03)   1.6682e-01 (3.57e-02)   3.8746e-01 (5.50e-02)   2.8143e-01 (3.64e-02)   2.1044e-01 (3.07e-01)   CEC19-MaTMO6-T28   8.6180e-03 (6.74e-04)   1.7322e-01 (4.02e-02)   3.5983e-01 (6.72e-02)   2.7329e-01 (2.26e-02)   3.3365e-01 (3.98e-01)   CEC19-MaTMO6-T29   3.6526e-02 (1.12e-02)   1.7651e-01 (4.84e-02)   3.6631e-01 (4.94e-02)   2.7714e-01 (2.28e-02)   1.6938e-01 (2.56e-01)   CEC19-MaTMO6-T39   3.625e-02 (1.12e-02)   1.7441e-01 (2.86e-02)   3.6826e-01 (5.97e-02)   2.8518e-01 (2.43e-02)   2.4374e-01 (3.92e-01)   CEC19-MaTMO6-T33   3.2629e-02 (1.12e-02)   1.7441e-01 (2.86e-02)   3.8636e-01 (5.97e-02)   2.7155e-01 (2.73e-02)   1.0854e-01 (2.18e-02)   CEC19-MaTMO6-T33   3.4059e-02 (7.23e-03)   1.746e-01 (3.59e-02)   3.893e-01 (3.53e-02)   2.9555e-01 (3.09e-02)   1.7640e-01 (2.13e-01)   CEC19-MaTMO6-T34   8.6242e-03 (7.02e-04)   1.7196e-01 (3.68e-02)   3.993e-01 (3.53e-02)   2.9400e-01 (3.09e-02)   1.8934e-01 (2.13e-01)   CEC19-MaTMO6-T35   8.6030e-03 (9.54e-04)   1.5340e-01 (3.14e-02)   3.6450e-01 (5.84e-02)   2.7604e-01 (2.55e-02)   1.5388e-01 (1.63e-01)   CEC19-MaTMO6-T36   8.6030e-03 (9.54e-04)   1.5340e-01 (3.14e-02)   3.6137e-01 (5.01e-02)   2.7864e-01 (2.59e-02)   1.5388e-01 (1.63e-01)   CEC19-MaTMO6-T38   9.0351e-03 (9.70e-04)   1.8323e-01 (8.88e-02)   3.637e-01 (4.46e-02)   2.8854e-01 (3.02e-02)   1.5388e-01 (1.63e-01)   CEC19-MaTMO6-T39   3.5868e-02 (1.11e-02)   1.6598e-01 (3.88e-02)   3.6404e-01 (4.93e-02)   2.8854e-01 (3.02e-02)   1.5388e-01 (1.63e-01)   CEC19-MaTMO6-T39   3.5868e-02 (1.11e-02)   1.6598e-01 (3.88e-02)   3.6404e-01 (4.93e-02)   2.8854e-01 (3.02e-02)   1.5386e-01 (4.76e-01)   CEC19-MaTMO6-T41   8.4459e-03 (4.97e-04)   1.6340e-01 (3.58e-02)   3.8996e-01 (4.47e-02)   2.8854e-01 (	CEC19-MaTMO6-T23	3.2161e-02 (8.18e-03)	1.6507e-01 (4.89e-02) -	3.4871e-01 (3.99e-02) -	2.6992e-01 (2.66e-02) -	1.6935e-01 (1.88e-01) -
CEC19-MaTMO6-T26				( ,		
CEC19-MaTM06-T27   3.5528e-02 (9.57e-03)   1.6682e-01 (3.57e-02)   3.8746e-01 (5.60e-02)   2.8143e-01 (3.64e-02)   2.1044e-01 (3.07e-01)   CEC19-MaTM06-T28   8.6180e-03 (6.74e-04)   1.7322e-01 (4.02e-02)   3.5983e-01 (6.72e-02)   2.7329e-01 (2.6e-02)   3.3365e-01 (3.98e-01)   CEC19-MaTM06-T30   8.4605e-03 (9.61e-04)   1.6326e-01 (4.60e-02)   3.6631e-01 (4.94e-02)   2.7714e-01 (2.28e-02)   1.9638e-01 (3.98e-01)   CEC19-MaTM06-T30   8.4605e-03 (9.61e-04)   1.6326e-01 (4.60e-02)   3.6823e-01 (4.65e-02)   2.8518e-01 (2.23e-02)   2.4374e-01 (3.92e-01)   CEC19-MaTM06-T31   3.2629e-02 (1.12e-02)   1.7441e-01 (2.86e-02)   3.6838e-01 (5.97e-02)   2.7155e-01 (2.73e-02)   1.0854e-01 (2.18e-02)   CEC19-MaTM06-T32   3.4059e-02 (7.23e-03)   1.7148e-01 (4.05e-02)   3.4244e-01 (3.90e-02)   2.7610e-01 (2.73e-02)   1.7640e-01 (2.18e-02)   CEC19-MaTM06-T33   3.4059e-02 (7.23e-03)   1.5460e-01 (3.58e-02)   3.5983e-01 (3.53e-02)   2.9400e-01 (3.09e-02)   1.7640e-01 (2.13e-01)   CEC19-MaTM06-T34   8.6242e-03 (7.02e-04)   1.7196e-01 (3.68e-02)   3.5983e-01 (3.53e-02)   2.9400e-01 (3.00e-02)   1.8934e-01 (2.35e-01)   CEC19-MaTM06-T35   3.3545e-02 (1.02e-02)   1.6524e-01 (4.01e-02)   3.6450e-01 (5.84e-02)   2.7604e-01 (1.58e-02)   2.7604e-01 (1.58e-02)   2.7604e-01 (1.58e-02)   2.7746e-01 (1.63e-01)   CEC19-MaTM06-T35   3.0438e-02 (5.34e-03)   1.6574e-01 (4.71e-02)   3.7590e-01 (4.41e-02)   2.8354e-01 (3.02e-02)   1.5388e-01 (1.63e-01)   CEC19-MaTM06-T38   9.0351e-03 (9.70e-04)   1.8232e-01 (8.88e-02)   3.6222e-01 (4.46e-02)   2.8821e-01 (3.85e-02)   2.6764e-01 (4.29e-01)   CEC19-MaTM06-T38   9.0351e-03 (9.70e-04)   1.6841e-01 (3.68e-02)   3.7390e-01 (4.46e-02)   2.8821e-01 (3.85e-02)   3.0896e-01 (4.75e-01)   CEC19-MaTM06-T39   3.5868e-02 (1.11e-02)   1.6598e-01 (3.28e-02)   3.7390e-01 (4.46e-02)   2.8821e-01 (3.85e-02)   3.0986e-01 (4.75e-01)   CEC19-MaTM06-T40   3.789e-02 (9.04e-03)   1.6790e-01 (3.68e-02)   3.489e-02   3.7390e-01 (4.46e-02)   2.8821e-01 (3.86e-02)   3.497e-01 (4.66e-01)   CEC19-MaTM06-T43   3.451e-02 (9.33e-03)						1.7930e-01 (2.64e-01) -
CEC19-MaTM06-T28	CEC19-MaTMO6-T26	8.5688e-03 (6.66e-04)		3.5586e-01 (5.93e-02) -	2.7340e-01 (2.50e-02) -	2.6602e-01 (3.79e-01) -
CEC19-MaTMO6-T30   3.6526e-02 (1.12e-02)   1.7651e-01 (4.84e-02) -   3.6631e-01 (4.94e-02) -   2.7714e-01 (2.28e-02) -   1.9638e-01 (2.56e-01) -   CEC19-MaTMO6-T30   3.4605e-03 (9.61e-04)   1.6326e-01 (4.60e-02) -   3.6823e-01 (4.63e-02) -   2.8518e-01 (2.43e-02) -   2.4374e-01 (3.92e-01) -   CEC19-MaTMO6-T31   3.2629e-02 (1.12e-03)   1.7141e-01 (2.86e-02) -   3.6806e-01 (5.97e-02) -   2.7155e-01 (2.73e-02) -   1.0854e-01 (2.18e-02) -   CEC19-MaTMO6-T32   9.1023e-03 (1.12e-03)   1.7148e-01 (4.05e-02) -   3.4244e-01 (3.90e-02) -   2.7610e-01 (2.73e-02) -   1.9486e-01 (2.18e-01) -   CEC19-MaTMO6-T33   3.4059e-02 (7.23e-03)   1.5460e-01 (3.59e-02) -   3.9034e-01 (4.94e-02) -   2.9555e-01 (3.09e-02) -   1.7640e-01 (2.13e-01) -   CEC19-MaTMO6-T34   8.6242e-03 (7.02e-04)   1.7196e-01 (3.68e-02) -   3.5983e-01 (3.53e-02) -   2.9400e-01 (3.00e-02) -   1.8934e-01 (2.35e-01) -   CEC19-MaTMO6-T35   3.3545e-02 (1.02e-02)   1.6924e-01 (4.01e-02) -   3.6450e-01 (5.84e-02) -   2.7604e-01 (2.55e-02) -   2.0749e-01 (2.66e-01) -   CEC19-MaTMO6-T36   8.6030e-03 (9.54e-04)   1.5340e-01 (3.14e-02) -   3.6137e-01 (5.01e-02) -   2.7464e-01 (1.98e-02) -   1.5388e-01 (1.6574e-01) -   CEC19-MaTMO6-T37   3.0438e-02 (5.34e-03)   1.6574e-01 (4.71e-02) -   3.7590e-01 (4.41e-02) -   2.8854e-01 (3.02e-02) -   1.5391e-01 (1.76e-01) -   CEC19-MaTMO6-T38   9.0351e-03 (9.70e-04)   1.8232e-01 (8.88e-02) -   3.6222e-01 (4.46e-02) -   2.8851e-01 (3.02e-02) -   2.6764e-01 (4.29e-01) -   CEC19-MaTMO6-T30   3.5868e-02 (1.11e-02)   1.5598e-01 (3.12e-02) -   3.6404e-01 (4.93e-02) -   2.8872e-01 (3.04e-02) -   2.2772e-01 (5.07e-01) -   CEC19-MaTMO6-T41   3.4789e-02 (9.04e-03)   1.783e-01 (3.48e-02) -   3.7390e-01 (4.67e-02) -   2.8872e-01 (2.69e-02) -   2.7127e-01 (5.07e-01) -   CEC19-MaTMO6-T44   8.4224e-03 (6.38e-04)   1.5459e-01 (2.51e-02) -   3.6975e-01 (5.08e-02) -   2.7057e-01 (3.85e-02) -   2.7127e-01 (5.07e-01) -   CEC19-MaTMO6-T45   8.4224e-03 (6.38e-04)   1.5794e-01 (2.51e-02) -   3.488e-01 (5.39e-02) -   2.7057e-01 (3.85e-02) -   1.8957e-01 (	CEC19-MaTMO6-T27	3.5528e-02 (9.57e-03)	1.6682e-01 (3.57e-02) -	3.8746e-01 (5.60e-02) -	2.8143e-01 (3.64e-02) -	2.1044e-01 (3.07e-01) -
CEC19-MaTMO6-T30         8.4605e-03 (9.61e-04)         1.6326e-01 (4.60e-02) -         3.6823e-01 (4.63e-02) -         2.8518e-01 (2.43e-02) -         2.4374e-01 (3.92e-01) -           CEC19-MaTMO6-T31         3.2629e-02 (1.12e-02)         1.7441e-01 (2.86e-02) -         3.6826e-01 (5.97e-02) -         2.7155e-01 (2.73e-02) -         1.0854e-01 (2.18e-02) -           CEC19-MaTMO6-T32         9.1023e-03 (1.12e-03)         1.5460e-01 (3.59e-02) -         3.424e-01 (3.90e-02) -         2.7610e-01 (2.73e-02) -         1.9486e-01 (2.48e-01) -           CEC19-MaTMO6-T33         3.4059e-02 (7.23e-03)         1.5460e-01 (3.59e-02) -         3.9034e-01 (4.94e-02) -         2.9555e-01 (3.09e-02) -         1.7640e-01 (2.13e-01) -           CEC19-MaTMO6-T33         8.6242e-03 (7.02e-04) -         1.7196e-01 (3.68e-02) -         3.5983e-01 (3.53e-02) -         2.9400e-01 (3.00e-02) -         1.8934e-01 (2.35e-01) -           CEC19-MaTMO6-T35         3.3545e-02 (1.02e-02) -         1.6924e-01 (4.01e-02) -         3.6450e-01 (5.84e-02) -         2.7604e-01 (2.95e-02) -         2.0749e-01 (2.66e-01) -           CEC19-MaTMO6-T36         8.6030e-03 (9.54e-04) -         1.5340e-01 (3.14e-02) -         3.6450e-01 (5.84e-02) -         2.7464e-01 (1.98e-02) -         1.5391e-01 (1.63e-01) -           CEC19-MaTMO6-T37         3.0438e-02 (5.34e-03) -         1.6574e-01 (4.71e-02) -         3.7590e-01 (4.41e-02) -         2.8821e-01 (3.04e-02) -         1.5391e-01 (1.69e-01) -		8.6180e-03 (6.74e-04)	1.7322e-01 (4.02e-02) -	3.5983e-01 (6.72e-02) -		3.3365e-01 (3.98e-01) -
CEC19-MaTMO6-T31   3.2629e-02 (1.12e-02)   1.7441e-01 (2.86e-02) -   3.6806e-01 (5.97e-02) -   2.7155e-01 (2.73e-02) -   1.0854e-01 (2.18e-02) -   CEC19-MaTMO6-T32   9.1023e-03 (1.12e-03)   1.7148e-01 (4.05e-02) -   3.4244e-01 (3.90e-02) -   2.7610e-01 (2.73e-02) -   1.9486e-01 (2.48e-01) -   CEC19-MaTMO6-T33   3.4059e-02 (7.23e-03)   1.5460e-01 (3.59e-02) -   3.9334e-01 (4.94e-02) -   2.9555e-01 (3.09e-02) -   1.640e-01 (2.13e-01) -   CEC19-MaTMO6-T34   8.6242e-03 (7.02e-04)   1.7196e-01 (3.68e-02) -   3.5384s-02 (1.02e-02)   1.6924e-01 (4.01e-02) -   3.6450e-01 (5.84e-02) -   2.7604e-01 (2.55e-02) -   2.0749e-01 (2.66e-01) -   CEC19-MaTMO6-T35   3.3545e-02 (1.02e-02)   1.6924e-01 (4.01e-02) -   3.6450e-01 (5.01e-02) -   2.7464e-01 (1.98e-02) -   1.5388e-01 (1.63e-01) -   CEC19-MaTMO6-T36   8.6030e-03 (9.54e-04)   1.5340e-01 (3.14e-02) -   3.6137e-01 (5.01e-02) -   2.7464e-01 (1.98e-02) -   1.5388e-01 (1.63e-01) -   CEC19-MaTMO6-T37   3.0438e-02 (5.34e-03)   1.6574e-01 (4.71e-02) -   3.7590e-01 (4.41e-02) -   2.8821e-01 (3.02e-02) -   1.5391e-01 (1.76e-01) -   CEC19-MaTMO6-T38   3.5868e-02 (1.11e-02)   1.6598e-01 (3.12e-02) -   3.6404e-01 (4.95e-02) -   2.8821e-01 (3.04e-02) -   2.6764e-01 (4.29e-01) -   CEC19-MaTMO6-T40   8.4459e-03 (4.97e-04)   1.6841e-01 (3.68e-02) -   3.7390e-01 (4.49e-02) -   2.8670e-01 (2.81e-02) -   1.2259e-01 (1.80e-02) -   CEC19-MaTMO6-T41   3.7789e-02 (9.04e-03)   1.7183e-01 (3.48e-02) -   3.7390e-01 (4.49e-02) -   2.8922e-01 (2.69e-02) -   2.7127e-01 (5.07e-01) -   CEC19-MaTMO6-T42   8.4224e-03 (6.38e-04)   1.5459e-01 (2.51e-02) -   3.4975e-01 (5.08e-02) -   2.7057e-01 (3.85e-02) -   3.4472e-01 (4.66e-01) -   CEC19-MaTMO6-T44   8.9224e-03 (2.22e-03)   1.6470e-01 (2.95e-02) -   3.4598e-01 (5.39e-02) -   2.7057e-01 (3.85e-02) -   1.1300e-01 (1.89e-02) -   CEC19-MaTMO6-T44   8.9224e-03 (2.22e-03)   1.6470e-01 (2.95e-02) -   3.4529e-01 (5.39e-02) -   2.7953e-01 (2.99e-02) -   1.5849e-01 (1.82e-01) -   CEC19-MaTMO6-T44   8.5990e-03 (1.69e-03)   1.6771e-01 (2.89e-02) -   3.6690e-01 (7.2		` ′	` /	` ′	` ′	` /
CEC19-MaTMO6-T32   9.1023e-03 (1.12e-03)   1.7148e-01 (4.05e-02) -   3.4244e-01 (3.90e-02) -   2.7610e-01 (2.73e-02) -   1.9486e-01 (2.48e-01) -   CEC19-MaTMO6-T33   3.4059e-02 (7.23e-03)   1.5460e-01 (3.59e-02) -   3.9034e-01 (4.94e-02) -   2.9555e-01 (3.09e-02) -   1.7640e-01 (2.13e-01) -   CEC19-MaTMO6-T34   8.6242e-03 (7.02e-04)   1.7196e-01 (3.68e-02) -   3.5983e-01 (3.53e-02) -   2.9400e-01 (3.00e-02) -   1.8934e-01 (2.35e-01) -   CEC19-MaTMO6-T35   3.3545e-02 (1.02e-02)   1.6924e-01 (4.01e-02) -   3.6450e-01 (5.84e-02) -   2.7646e-01 (2.55e-02) -   2.0749e-01 (2.66e-01) -   CEC19-MaTMO6-T36   8.6030e-03 (9.54e-04)   1.5340e-01 (3.14e-02) -   3.6137e-01 (5.01e-02) -   2.7464e-01 (1.98e-02) -   1.538e-01 (1.63e-01) -   CEC19-MaTMO6-T37   3.0438e-02 (5.34e-03)   1.6574e-01 (4.71e-02) -   3.7590e-01 (4.41e-02) -   2.8354e-01 (3.02e-02) -   1.5391e-01 (1.76e-01) -   CEC19-MaTMO6-T38   9.0351e-03 (9.70e-04)   1.8232e-01 (8.88e-02) -   3.6222e-01 (4.46e-02) -   2.8821e-01 (3.08e-02) -   2.6764e-01 (4.29e-01) -   CEC19-MaTMO6-T39   3.5868e-02 (1.11e-02)   1.6598e-01 (3.12e-02) -   3.6404e-01 (4.93e-02) -   2.7978e-01 (3.04e-02) -   3.0896e-01 (4.17e-01) -   CEC19-MaTMO6-T40   3.4459e-03 (4.97e-04)   1.6841e-01 (3.68e-02) -   3.7390e-01 (4.43e-02) -   2.8922e-01 (2.69e-02) -   2.712re-01 (5.07e-01) -   CEC19-MaTMO6-T42   8.4224e-03 (6.38e-04)   1.5459e-01 (2.51e-02) -   3.6975e-01 (5.08e-02) -   2.9680e-01 (2.84e-02) -   3.4472e-01 (4.64e-01) -   CEC19-MaTMO6-T44   8.9224e-03 (6.38e-03)   1.6773e-01 (2.95e-02) -   3.4884e-01 (4.63e-02) -   2.7046e-01 (3.16e-02) -   1.8957e-01 (1.98e-02) -   CEC19-MaTMO6-T45   3.2379e-02 (8.83e-03)   1.6770e-01 (2.95e-02) -   3.4884e-01 (4.66e-02) -   2.8238e-01 (3.21e-02) -   1.6840e-01 (1.82e-01) -   CEC19-MaTMO6-T46   8.5990e-03   1.6670e-01 (2.95e-02) -   3.4884e-01 (4.66e-02) -   2.8238e-01 (3.21e-02) -   1.6886e-01 (2.28e-01) -   CEC19-MaTMO6-T48   8.4883e-03 (6.30e-04)   1.6291e-01 (2.89e-02) -   3.660e-01 (7.25e-02) -   2.8538e-01 (3.31e-02) -   1.4858e-01 (1.40e-01) -				( )		
CEC19-MaTM06-T33   3.4059e-02 (7.23e-03)   1.5460e-01 (3.59e-02) -   3.9034e-01 (4.94e-02) -   2.9555e-01 (3.09e-02) -   1.7640e-01 (2.13e-01) -   CEC19-MaTM06-T34   8.6242e-03 (7.02e-04)   1.7196e-01 (3.68e-02) -   3.5983e-01 (3.53e-02) -   2.9400e-01 (3.00e-02) -   1.8934e-01 (2.35e-01) -   CEC19-MaTM06-T35   3.3545e-02 (1.02e-02)   1.6924e-01 (4.01e-02) -   3.6450e-01 (5.84e-02) -   2.7604e-01 (2.55e-02) -   2.0749e-01 (2.66e-01) -   CEC19-MaTM06-T35   8.6030e-03 (9.54e-04)   1.5340e-01 (3.14e-02) -   3.6137e-01 (5.01e-02) -   2.7464e-01 (1.98e-02) -   1.5388e-01 (1.63e-01) -   CEC19-MaTM06-T37   3.0438e-02 (5.34e-03)   1.6574e-01 (4.71e-02) -   3.7590e-01 (4.41e-02) -   2.8854e-01 (3.02e-02) -   1.538e-01 (1.69e-01) -   CEC19-MaTM06-T38   9.0351e-03 (9.70e-04)   1.8232e-01 (8.88e-02) -   3.6222e-01 (4.46e-02) -   2.8821e-01 (3.85e-02) -   2.6764e-01 (4.29e-01) -   CEC19-MaTM06-T39   3.5868e-02 (1.11e-02)   1.6598e-01 (3.12e-02) -   3.6404e-01 (4.93e-02) -   2.7978e-01 (3.04e-02) -   3.0896e-01 (4.17e-01) -   CEC19-MaTM06-T40   8.4459e-03 (4.97e-04)   1.6841e-01 (3.68e-02) -   3.790e-01 (4.43e-02) -   2.8870e-01 (2.81e-02) -   2.717e-01 (5.07e-01) -   CEC19-MaTM06-T41   3.7789e-02 (9.04e-03)   1.7183e-01 (2.51e-02) -   3.6975e-01 (5.08e-02) -   2.9680e-01 (2.84e-02) -   2.717e-01 (5.07e-01) -   CEC19-MaTM06-T43   3.4511e-02 (9.33e-03)   1.6793e-01 (2.95e-02) -   3.484e-01 (4.63e-02) -   2.7057e-01 (3.85e-02) -   1.8957e-01 (1.94e-01) -   CEC19-MaTM06-T44   8.9224e-03 (2.22e-03)   1.6470e-01 (2.95e-02) -   3.4884e-01 (4.63e-02) -   2.7953e-01 (3.29e-02) -   1.6783e-01 (1.94e-01) -   CEC19-MaTM06-T44   8.9294e-03 (1.69e-03)   1.571e-01 (2.89e-02) -   3.6660e-01 (7.25e-02) -   2.8838e-01 (3.21e-02) -   1.5849e-01 (1.82e-01) -   CEC19-MaTM06-T44   8.4883e-03 (6.30e-04)   1.5381e-01 (2.89e-02) -   3.6660e-01 (7.25e-02) -   2.8838e-01 (3.09e-02) -   1.4858e-01 (1.90e-02) -   CEC19-MaTM06-T44   8.4883e-03 (6.30e-04)   1.5381e-01 (2.49e-02) -   3.6660e-01 (7.25e-02) -   2.8538e-01 (3.31e-02) -   1.774e-01 (2.83e-0			` /	` /	` /	` /
CEC19-MaTM06-T34   8.6242e-03 (7.02e-04)   1.7196e-01 (3.68e-02) -   3.5983e-01 (3.53e-02) -   2.9400e-01 (3.00e-02) -   1.8934e-01 (2.35e-01) -   CEC19-MaTM06-T35   3.3545e-02 (1.02e-02)   1.6924e-01 (4.01e-02) -   3.6450e-01 (5.84e-02) -   2.7604e-01 (2.55e-02) -   2.0749e-01 (2.66e-01) -   CEC19-MaTM06-T36   8.6030e-03 (9.54e-04)   1.5340e-01 (3.14e-02) -   3.6137e-01 (5.01e-02) -   2.7464e-01 (1.98e-02) -   1.5388e-01 (1.63e-01) -   CEC19-MaTM06-T37   3.0438e-02 (5.34e-03)   1.6574e-01 (4.71e-02) -   3.7590e-01 (4.41e-02) -   2.8354e-01 (3.02e-02) -   1.5391e-01 (1.76e-01) -   CEC19-MaTM06-T38   9.0351e-03 (9.70e-04)   1.8232e-01 (8.88e-02) -   3.6222e-01 (4.46e-02) -   2.8821e-01 (3.08e-02) -   2.6764e-01 (4.29e-01) -   CEC19-MaTM06-T39   3.5868e-02 (1.11e-02)   1.6598e-01 (3.12e-02) -   3.6404e-01 (4.93e-02) -   2.7978e-01 (3.04e-02) -   3.0896e-01 (4.17e-01) -   CEC19-MaTM06-T40   8.4459e-03 (4.97e-04)   1.6841e-01 (3.68e-02) -   3.7044e-01 (4.67e-02) -   2.8670e-01 (2.81e-02) -   1.2259e-01 (1.80e-02) -   CEC19-MaTM06-T41   3.7789e-02 (9.04e-03)   1.7183e-01 (3.48e-02) -   3.7390e-01 (4.43e-02) -   2.9680e-01 (2.84e-02) -   2.7127e-01 (5.07e-01) -   CEC19-MaTM06-T44   8.4224e-03 (6.38e-04)   1.5459e-01 (2.51e-02) -   3.494e-01 (5.41e-02) -   2.7046e-01 (3.16e-02) -   1.8957e-01 (1.94e-01) -   CEC19-MaTM06-T44   8.9224e-03 (2.22e-03)   1.6470e-01 (2.95e-02) -   3.4884e-01 (4.63e-02) -   2.7057e-01 (3.85e-02) -   1.1300e-01 (1.83e-02) -   CEC19-MaTM06-T44   8.9224e-03 (2.22e-03)   1.6470e-01 (2.95e-02) -   3.4529e-01 (5.39e-02) -   2.7953e-01 (2.29e-02) -   1.6783e-01 (1.94e-01) -   CEC19-MaTM06-T44   8.5990e-03 (1.69e-03)   1.6771e-01 (2.89e-02) -   3.7322e-01 (4.06e-02) -   2.8238e-01 (3.09e-02) -   1.5849e-01 (1.82e-01) -   CEC19-MaTM06-T47   3.5384e-02 (1.19e-03)   1.6791e-01 (2.89e-02) -   3.6660e-01 (7.25e-02) -   2.853e-01 (3.09e-02) -   1.4858e-01 (1.97e-02) -   CEC19-MaTM06-T49   3.4825e-02 (6.73e-03)   1.6721e-01 (2.89e-02) -   3.6970e-01 (6.19e-02) -   2.8592e-01 (3.31e-02) -   1.7749e-01 (2.		` ′		` /		` /
CEC19-MaTMO6-T35         3.3545e-02 (1.02e-02)         1.6924e-01 (4.01e-02) -         3.6450e-01 (5.84e-02) -         2.7604e-01 (2.55e-02) -         2.0749e-01 (2.66e-01) -           CEC19-MaTMO6-T36         8.6030e-03 (9.54e-04)         1.5340e-01 (3.14e-02) -         3.6137e-01 (5.01e-02) -         2.7464e-01 (1.98e-02) -         1.5388e-01 (1.63e-01) -           CEC19-MaTMO6-T37         3.0438e-02 (5.34e-03)         1.6574e-01 (4.71e-02) -         3.7590e-01 (4.41e-02) -         2.8354e-01 (3.02e-02) -         1.5391e-01 (1.76e-01) -           CEC19-MaTMO6-T38         9.0351e-03 (9.70e-04)         1.8232e-01 (8.88e-02) -         3.6222e-01 (4.46e-02) -         2.8821e-01 (3.85e-02) -         2.6764e-01 (4.29e-01) -           CEC19-MaTMO6-T38         9.0351e-03 (9.70e-04)         1.8232e-01 (3.12e-02) -         3.6040e-01 (4.93e-02) -         2.7978e-01 (3.04e-02) -         2.6764e-01 (4.29e-01) -           CEC19-MaTMO6-T39         3.5868e-02 (1.11e-02) -         1.66598e-01 (3.12e-02) -         3.6040e-01 (4.93e-02) -         2.7978e-01 (3.04e-02) -         3.0896e-01 (4.17e-01) -           CEC19-MaTMO6-T40         8.4459e-03 (4.97e-04) 1.6841e-01 (3.68e-02) -         3.7044e-01 (4.67e-02) -         2.8670e-01 (2.81e-02) -         1.2259e-01 (1.80e-02) -         2.7127e-01 (5.07e-01) -           CEC19-MaTMO6-T41         3.7789e-02 (9.04e-03) 1.7183e-01 (3.68e-02) -         3.6975e-01 (5.08e-02) -         2.9680e-01 (2.84e-02) -         3.4472e-01 (4.64e-01) - </th <th></th> <th>` ′</th> <th>` /</th> <th>` '</th> <th>` ′</th> <th>`</th>		` ′	` /	` '	` ′	`
CEC19-MaTM06-T36         8.6030e-03 (9.54e-04)         1.5340e-01 (3.14e-02) -         3.6137e-01 (5.01e-02) -         2.7464e-01 (1.98e-02) -         1.5388e-01 (1.63e-01) -           CEC19-MaTM06-T37         3.0438e-02 (5.34e-03)         1.6574e-01 (4.71e-02) -         3.7590e-01 (4.41e-02) -         2.8354e-01 (3.02e-02) -         1.5391e-01 (1.76e-01) -           CEC19-MaTM06-T38         9.0351e-03 (9.70e-04)         1.8232e-01 (8.88e-02) -         3.6222e-01 (4.46e-02) -         2.8821e-01 (3.85e-02) -         2.6764e-01 (4.29e-01) -           CEC19-MaTM06-T39         3.5868e-02 (1.11e-02) -         1.6598e-01 (3.12e-02) -         3.6404e-01 (4.93e-02) -         2.7978e-01 (3.04e-02) -         3.0896e-01 (4.17e-01) -           CEC19-MaTM06-T39         8.4459e-03 (4.97e-04) -         1.6841e-01 (3.68e-02) -         3.704e-01 (4.93e-02) -         2.8670e-01 (2.81e-02) -         3.0896e-01 (1.18e-01) -           CEC19-MaTM06-T41         3.7789e-02 (9.04e-03) -         1.7183e-01 (3.68e-02) -         3.7390e-01 (4.43e-02) -         2.8922e-01 (2.69e-02) -         2.7127e-01 (5.07e-01) -           CEC19-MaTM06-T42         8.4224e-03 (6.38e-04) -         1.5459e-01 (2.51e-02) -         3.6975e-01 (5.08e-02) -         2.7046e-01 (3.16e-02) -         3.4472e-01 (4.64e-01) -           CEC19-MaTM06-T44         8.9224e-03 (2.22e-03) -         1.6470e-01 (2.95e-02) -         3.4884e-01 (4.63e-02) -         2.7057e-01 (3.85e-02) -         1.1300e-01 (1.83e-02) - <th></th> <th></th> <th>1.7196e-01 (3.68e-02) -</th> <th>3.5983e-01 (3.53e-02) -</th> <th>2.9400e-01 (3.00e-02) -</th> <th></th>			1.7196e-01 (3.68e-02) -	3.5983e-01 (3.53e-02) -	2.9400e-01 (3.00e-02) -	
CEC19-MaTMO6-T37         3.0438e-02 (5.34e-03)         1.6574e-01 (4.71e-02) -         3.7590e-01 (4.41e-02) -         2.8354e-01 (3.02e-02) -         1.5391e-01 (1.76e-01) -           CEC19-MaTMO6-T38         9.0351e-03 (9.70e-04)         1.8232e-01 (8.88e-02) -         3.6222e-01 (4.46e-02) -         2.8821e-01 (3.85e-02) -         2.6764e-01 (4.29e-01) -           CEC19-MaTMO6-T39         3.5868e-02 (1.11e-02)         1.6598e-01 (3.12e-02) -         3.6404e-01 (4.93e-02) -         2.7978e-01 (3.04e-02) -         3.0896e-01 (4.17e-01) -           CEC19-MaTMO6-T40         8.4459e-03 (4.97e-04) -         1.6841e-01 (3.68e-02) -         3.7390e-01 (4.47e-02) -         2.8670e-01 (2.81e-02) -         1.259e-01 (1.80e-02) -           CEC19-MaTMO6-T41         3.7789e-02 (9.04e-03) -         1.7183e-01 (3.48e-02) -         3.7390e-01 (4.43e-02) -         2.8922e-01 (2.69e-02) -         2.7127e-01 (5.07e-01) -           CEC19-MaTMO6-T42         8.4224e-03 (6.38e-04) -         1.5459e-01 (2.51e-02) -         3.6975e-01 (5.08e-02) -         2.7046e-01 (3.16e-02) -         1.8957e-01 (1.94e-01) -           CEC19-MaTMO6-T43         3.4511e-02 (9.33e-03) -         1.6470e-01 (2.95e-02) -         3.4884e-01 (5.41e-02) -         2.7057e-01 (3.85e-02) -         1.1300e-01 (1.83e-02) -           CEC19-MaTMO6-T45         3.2379e-02 (8.83e-03) -         1.6771e-01 (2.89e-02) -         3.4529e-01 (5.39e-02) -         2.7953e-01 (3.29e-02) -         1.6783e-01 (1.82e-01) - <th></th> <th></th> <th></th> <th>` /</th> <th>` ′</th> <th></th>				` /	` ′	
CEC19-MaTMO6-T38         9.0351e-03 (9.70e-04)         1.8232e-01 (8.88e-02) -         3.6222e-01 (4.46e-02) -         2.8821e-01 (3.85e-02) -         2.6764e-01 (4.29e-01) -           CEC19-MaTMO6-T39         3.5868e-02 (1.11e-02)         1.6598e-01 (3.12e-02) -         3.6404e-01 (4.93e-02) -         2.7978e-01 (3.04e-02) -         3.0896e-01 (4.17e-01) -           CEC19-MaTMO6-T40         8.4459e-03 (4.97e-04)         1.6841e-01 (3.68e-02) -         3.7044e-01 (4.67e-02) -         2.8670e-01 (2.81e-02) -         1.2259e-01 (1.80e-02) -           CEC19-MaTMO6-T41         3.7789e-02 (9.04e-03)         1.7183e-01 (3.48e-02) -         3.7390e-01 (4.43e-02) -         2.8922e-01 (2.69e-02) -         2.7127e-01 (5.07e-01) -           CEC19-MaTMO6-T42         8.4224e-03 (6.38e-04)         1.5459e-01 (2.51e-02) -         3.6975e-01 (5.08e-02) -         2.9680e-01 (2.84e-02) -         3.4472e-01 (4.64e-01) -           CEC19-MaTMO6-T43         3.4511e-02 (9.33e-03)   1.6793e-01 (4.20e-02) -         3.4194e-01 (5.41e-02) -         2.7046e-01 (3.16e-02) -         1.8957e-01 (1.94e-01) -           CEC19-MaTMO6-T44         8.9224e-03 (2.22e-03)   1.6470e-01 (2.95e-02) -         3.4529e-01 (5.39e-02) -         2.7057e-01 (3.85e-02) -         1.1300e-01 (1.83e-02) -           CEC19-MaTMO6-T45         3.2379e-02 (8.83e-03)   1.7574e-01 (3.17e-02) -         3.4529e-01 (5.39e-02) -         2.7953e-01 (2.29e-02) -         1.6783e-01 (2.28e-01) -           CEC19-MaTMO6-T46 <th></th> <th>` ′</th> <th>` /</th> <th>` '</th> <th>` ′</th> <th></th>		` ′	` /	` '	` ′	
CEC19-MaTMO6-T39         3.5868e-02 (1.11e-02)         1.6598e-01 (3.12e-02) -         3.6404e-01 (4.93e-02) -         2.7978e-01 (3.04e-02) -         3.0896e-01 (4.17e-01) -           CEC19-MaTMO6-T40         8.4459e-03 (4.97e-04)         1.6841e-01 (3.68e-02) -         3.7044e-01 (4.67e-02) -         2.8670e-01 (2.81e-02) -         1.2259e-01 (1.80e-02) -           CEC19-MaTMO6-T41         3.7789e-02 (9.04e-03)         1.7183e-01 (3.48e-02) -         3.7390e-01 (4.43e-02) -         2.8922e-01 (2.69e-02) -         2.7127e-01 (5.07e-01) -           CEC19-MaTMO6-T42         8.4224e-03 (6.38e-04)         1.5459e-01 (2.51e-02) -         3.6975e-01 (5.08e-02) -         2.9680e-01 (2.84e-02) -         3.4472e-01 (4.64e-01) -           CEC19-MaTMO6-T43         3.4511e-02 (9.33e-03)   1.6793e-01 (4.20e-02) -         3.4194e-01 (5.41e-02) -         2.7046e-01 (3.16e-02) -         1.8957e-01 (1.94e-01) -           CEC19-MaTMO6-T44         8.9224e-03 (2.22e-03)   1.6470e-01 (2.95e-02) -         3.4529e-01 (5.39e-02) -         2.7057e-01 (3.85e-02) -         1.1300e-01 (1.83e-02) -           CEC19-MaTMO6-T45         8.5990e-03 (1.69e-03)   1.6771e-01 (2.89e-02) -         3.4529e-01 (5.39e-02) -         2.7953e-01 (2.29e-02) -         1.6783e-01 (2.28e-01) -           CEC19-MaTMO6-T46         8.5990e-03 (1.69e-03)   1.6771e-01 (2.89e-02) -         3.7322e-01 (4.06e-02) -         2.8238e-01 (3.21e-02) -         1.5849e-01 (1.82e-01) -           CEC19-MaTMO6-T47         3					2.8354e-01 (3.02e-02) -	
CEC19-MaTM06-T40         8.4459e-03 (4.97e-04)         1.6841e-01 (3.68e-02) -         3.7044e-01 (4.67e-02) -         2.8670e-01 (2.81e-02) -         1.2259e-01 (1.80e-02) -           CEC19-MaTM06-T41         3.7789e-02 (9.04e-03)         1.7183e-01 (3.48e-02) -         3.7390e-01 (4.43e-02) -         2.8922e-01 (2.69e-02) -         2.7127e-01 (5.07e-01) -           CEC19-MaTM06-T42         8.4224e-03 (6.38e-04)         1.5459e-01 (2.51e-02) -         3.6975e-01 (5.08e-02) -         2.9680e-01 (2.84e-02) -         3.4472e-01 (4.64e-01) -           CEC19-MaTM06-T43         3.4511e-02 (9.33e-03)         1.6793e-01 (4.20e-02) -         3.4194e-01 (5.41e-02) -         2.7046e-01 (3.16e-02) -         1.8957e-01 (1.94e-01) -           CEC19-MaTM06-T44         8.9224e-03 (2.22e-03)		9.0351e-03 (9.70e-04)	1.8232e-01 (8.88e-02) -	3.6222e-01 (4.46e-02) -	2.8821e-01 (3.85e-02) -	2.6764e-01 (4.29e-01) -
CEC19-MaTM06-T41         3.7789e-02 (9.04e-03)         1.7183e-01 (3.48e-02) -         3.7390e-01 (4.43e-02) -         2.8922e-01 (2.69e-02) -         2.7127e-01 (5.07e-01) -           CEC19-MaTM06-T42         8.4224e-03 (6.38e-04)         1.5459e-01 (2.51e-02) -         3.6975e-01 (5.08e-02) -         2.9680e-01 (2.84e-02) -         3.4472e-01 (4.64e-01) -           CEC19-MaTM06-T43         3.4511e-02 (9.33e-03)         1.6793e-01 (4.20e-02) -         3.4194e-01 (5.41e-02) -         2.7046e-01 (3.16e-02) -         1.8957e-01 (1.94e-01) -           CEC19-MaTM06-T44         8.9224e-03 (2.22e-03)   1.6470e-01 (2.95e-02) -         3.4884e-01 (4.63e-02) -         2.7057e-01 (3.85e-02) -         1.1300e-01 (1.83e-02) -           CEC19-MaTM06-T44         8.990e-03 (1.69e-03)   1.6771e-01 (2.89e-02) -         3.4529e-01 (5.39e-02) -         2.7953e-01 (2.29e-02) -         1.6783e-01 (2.28e-01) -           CEC19-MaTM06-T46         8.590e-03 (1.69e-03)   1.6771e-01 (2.89e-02) -         3.7322e-01 (4.06e-02) -         2.8238e-01 (3.21e-02) -         1.5849e-01 (1.82e-01) -           CEC19-MaTM06-T47         3.5384e-02 (1.19e-02)   1.5381e-01 (2.89e-02) -         3.6660e-01 (7.25e-02) -         2.8438e-01 (3.09e-02) -         1.4858e-01 (1.40e-01) -           CEC19-MaTM06-T48         8.4883e-03 (6.30e-04)   1.6291e-01 (2.49e-02) -         3.6198e-01 (5.24e-02) -         2.7556e-01 (2.35e-02) -         1.1747e-01 (1.97e-02) -           CEC19-MaTM06-T49         3.4825e-02 (6.73e-		` ′	1.6598e-01 (3.12e-02) -	` '		3.0896e-01 (4.17e-01) -
CEC19-MaTMO6-T42         8.4224e-03 (6.38e-04)         1.5459e-01 (2.51e-02) -         3.6975e-01 (5.08e-02) -         2.9680e-01 (2.84e-02) -         3.4472e-01 (4.64e-01) -           CEC19-MaTMO6-T43         3.4511e-02 (9.33e-03)         1.6793e-01 (4.20e-02) -         3.4194e-01 (5.41e-02) -         2.7046e-01 (3.16e-02) -         1.8957e-01 (1.94e-01) -           CEC19-MaTMO6-T44         8.9224e-03 (2.22e-03)         1.6470e-01 (2.95e-02) -         3.4884e-01 (4.63e-02) -         2.7057e-01 (3.85e-02) -         1.1300e-01 (1.83e-02) -           CEC19-MaTMO6-T45         3.2379e-02 (8.83e-03)         1.574e-01 (3.17e-02) -         3.4529e-01 (5.39e-02) -         2.7953e-01 (2.29e-02) -         1.6783e-01 (2.28e-01) -           CEC19-MaTMO6-T45         8.5990e-03 (1.69e-03) -         1.6771e-01 (2.89e-02) -         3.7322e-01 (4.06e-02) -         2.8238e-01 (3.21e-02) -         1.5849e-01 (1.82e-01) -           CEC19-MaTMO6-T47         3.5384e-02 (1.19e-02) -         1.5381e-01 (2.87e-02) -         3.6660e-01 (7.25e-02) -         2.8438e-01 (3.09e-02) -         1.4858e-01 (1.40e-01) -           CEC19-MaTMO6-T48         8.4883e-03 (6.30e-04) -         1.6291e-01 (2.49e-02) -         3.6970e-01 (6.19e-02) -         2.8592e-01 (3.31e-02) -         1.7749e-01 (2.83e-01) -           CEC19-MaTMO6-T49         3.4825e-02 (6.73e-03) -         1.7327e-01 (4.43e-02) -         3.6970e-01 (6.19e-02) -         2.8592e-01 (3.31e-02) -         1.7749e-01 (2.83e-01) -	CEC19-MaTMO6-T40	8.4459e-03 (4.97e-04)	1.6841e-01 (3.68e-02) -	3.7044e-01 (4.67e-02) -	2.8670e-01 (2.81e-02) -	1.2259e-01 (1.80e-02) -
CEC19-MaTM06-T43         3.4511e-02 (9.33e-03)         1.6793e-01 (4.20e-02) -         3.4194e-01 (5.41e-02) -         2.7046e-01 (3.16e-02) -         1.8957e-01 (1.94e-01) -           CEC19-MaTM06-T44         8.9224e-03 (2.22e-03)         1.6470e-01 (2.95e-02) -         3.4884e-01 (4.63e-02) -         2.7057e-01 (3.85e-02) -         1.1300e-01 (1.83e-02) -           CEC19-MaTM06-T45         3.2379e-02 (8.83e-03)         1.7574e-01 (3.17e-02) -         3.4529e-01 (5.39e-02) -         2.7953e-01 (2.29e-02) -         1.6783e-01 (2.28e-01) -           CEC19-MaTM06-T46         8.5990e-03 (1.69e-03) -         1.6771e-01 (2.89e-02) -         3.7322e-01 (4.06e-02) -         2.8238e-01 (3.21e-02) -         1.5849e-01 (1.82e-01) -           CEC19-MaTM06-T47         3.5384e-02 (1.19e-02) -         1.5381e-01 (2.87e-02) -         3.6690e-01 (5.24e-02) -         2.8438e-01 (3.09e-02) -         1.4858e-01 (1.40e-01) -           CEC19-MaTM06-T48         8.4883e-03 (6.30e-04) -         1.6291e-01 (2.49e-02) -         3.6970e-01 (5.24e-02) -         2.8592e-01 (3.31e-02) -         1.7749e-01 (2.83e-01) -           CEC19-MaTM06-T50         8.7484e-03 (1.74e-03) -         1.7538e-01 (3.49e-02) -         3.5062e-01 (4.96e-02) -         2.9242e-01 (3.29e-02) -         1.6429e-01 (1.74e-01) -		3.7789e-02 (9.04e-03)	1.7183e-01 (3.48e-02) -	3.7390e-01 (4.43e-02) -	2.8922e-01 (2.69e-02) -	2.7127e-01 (5.07e-01) -
CEC19-MaTM06-T44         8.9224e-03         2.22e-03         1.6470e-01 (2.95e-02) -         3.4884e-01 (4.63e-02) -         2.7057e-01 (3.85e-02) -         1.1300e-01 (1.83e-02) -           CEC19-MaTM06-T45         3.2379e-02 (8.83e-03)         1.7574e-01 (3.17e-02) -         3.4529e-01 (5.39e-02) -         2.7953e-01 (2.29e-02) -         1.6783e-01 (2.28e-01) -           CEC19-MaTM06-T46         8.5990e-03 (1.69e-03)         1.6771e-01 (2.89e-02) -         3.7322e-01 (4.06e-02) -         2.8238e-01 (3.21e-02) -         1.5849e-01 (1.82e-01) -           CEC19-MaTM06-T47         3.5384e-02 (1.19e-02)         1.5381e-01 (2.87e-02) -         3.6660e-01 (7.25e-02) -         2.8433e-01 (3.09e-02) -         1.4858e-01 (1.40e-01) -           CEC19-MaTM06-T48         8.4883e-03 (6.30e-04)         1.6291e-01 (2.49e-02) -         3.6198e-01 (5.24e-02) -         2.7556e-01 (2.35e-02) -         1.1747e-01 (1.97e-02) -           CEC19-MaTM06-T49         3.4825e-02 (6.73e-03)         1.7327e-01 (4.43e-02) -         3.6970e-01 (6.19e-02) -         2.8592e-01 (3.31e-02) -         1.7749e-01 (2.83e-01) -           CEC19-MaTM06-T50         8.7484e-03 (1.74e-03)         1.7538e-01 (3.49e-02) -         3.5062e-01 (4.96e-02) -         2.9242e-01 (3.29e-02) -         1.6429e-01 (1.74e-01) -	CEC19-MaTMO6-T42	8.4224e-03 (6.38e-04)	1.5459e-01 (2.51e-02) -	3.6975e-01 (5.08e-02) -	2.9680e-01 (2.84e-02) -	3.4472e-01 (4.64e-01) -
CEC19-MaTM06-T45         3.2379e-02 (8.83e-03)         1.7574e-01 (3.17e-02) -         3.4529e-01 (5.39e-02) -         2.7953e-01 (2.29e-02) -         1.6783e-01 (2.28e-01) -           CEC19-MaTM06-T46         8.5990e-03 (1.69e-03)         1.6771e-01 (2.89e-02) -         3.7322e-01 (4.06e-02) -         2.8238e-01 (3.21e-02) -         1.5849e-01 (1.82e-01) -           CEC19-MaTM06-T47         3.5384e-02 (1.19e-02)         1.5381e-01 (2.87e-02) -         3.6660e-01 (7.25e-02) -         2.8433e-01 (3.09e-02) -         1.4858e-01 (1.40e-01) -           CEC19-MaTM06-T48         8.4883e-03 (6.30e-04)         1.6291e-01 (2.49e-02) -         3.6198e-01 (5.24e-02) -         2.7556e-01 (2.35e-02) -         1.1747e-01 (1.97e-02) -           CEC19-MaTM06-T49         3.4825e-02 (6.73e-03)         1.7327e-01 (4.43e-02) -         3.6970e-01 (6.19e-02) -         2.8592e-01 (3.31e-02) -         1.7749e-01 (2.83e-01) -           CEC19-MaTM06-T50         8.7484e-03 (1.74e-03)         1.7538e-01 (3.49e-02) -         3.5062e-01 (4.96e-02) -         2.9242e-01 (3.29e-02) -         1.6429e-01 (1.74e-01) -						1.8957e-01 (1.94e-01) -
CEC19-MaTM06-T46         8.5990e-03 (1.69e-03)         1.6771e-01 (2.89e-02) -         3.7322e-01 (4.06e-02) -         2.8238e-01 (3.21e-02) -         1.5849e-01 (1.82e-01) -           CEC19-MaTM06-T47         3.5384e-02 (1.19e-02)         1.5381e-01 (2.87e-02) -         3.6660e-01 (7.25e-02) -         2.8433e-01 (3.09e-02) -         1.4858e-01 (1.40e-01) -           CEC19-MaTM06-T48         8.4883e-03 (6.30e-04)         1.6291e-01 (2.49e-02) -         3.6198e-01 (5.24e-02) -         2.7556e-01 (2.35e-02) -         1.1747e-01 (1.97e-02) -           CEC19-MaTM06-T49         3.4825e-02 (6.73e-03)         1.7327e-01 (4.43e-02) -         3.6970e-01 (6.19e-02) -         2.8592e-01 (3.31e-02) -         1.7749e-01 (2.83e-01) -           CEC19-MaTM06-T50         8.7484e-03 (1.74e-03)         1.7538e-01 (3.49e-02) -         3.5062e-01 (4.96e-02) -         2.9242e-01 (3.29e-02) -         1.6429e-01 (1.74e-01) -			` /	` /	` ′	` /
CEC19-MaTM06-T47         3.5384e-02 (1.19e-02)         1.5381e-01 (2.87e-02) -         3.6660e-01 (7.25e-02) -         2.8433e-01 (3.09e-02) -         1.4858e-01 (1.40e-01) -           CEC19-MaTM06-T48         8.4883e-03 (6.30e-04)         1.6291e-01 (2.49e-02) -         3.6198e-01 (5.24e-02) -         2.7556e-01 (2.35e-02) -         1.1747e-01 (1.97e-02) -           CEC19-MaTM06-T49         3.4825e-02 (6.73e-03)         1.7327e-01 (4.43e-02) -         3.6970e-01 (6.19e-02) -         2.8592e-01 (3.31e-02) -         1.7749e-01 (2.83e-01) -           CEC19-MaTM06-T50         8.7484e-03 (1.74e-03)         1.7538e-01 (3.49e-02) -         3.5062e-01 (4.96e-02) -         2.9242e-01 (3.29e-02) -         1.6429e-01 (1.74e-01) -	CEC19-MaTMO6-T45	3.2379e-02 (8.83e-03)	1.7574e-01 (3.17e-02) -	3.4529e-01 (5.39e-02) -	2.7953e-01 (2.29e-02) -	1.6783e-01 (2.28e-01) -
CEC19-MaTM06-T48         8.4883e-03 (6.30e-04)         1.6291e-01 (2.49e-02) -         3.6198e-01 (5.24e-02) -         2.7556e-01 (2.35e-02) -         1.1747e-01 (1.97e-02) -           CEC19-MaTM06-T49         3.4825e-02 (6.73e-03)         1.7327e-01 (4.43e-02) -         3.6970e-01 (6.19e-02) -         2.8592e-01 (3.31e-02) -         1.7749e-01 (2.83e-01) -           CEC19-MaTM06-T50         8.7484e-03 (1.74e-03)         1.7538e-01 (3.49e-02) -         3.5062e-01 (4.96e-02) -         2.9242e-01 (3.29e-02) -         1.6429e-01 (1.74e-01) -				` /	` /	` /
CEC19-MaTM06-T49         3.4825e-02 (6.73e-03)         1.7327e-01 (4.43e-02) -         3.6970e-01 (6.19e-02) -         2.8592e-01 (3.31e-02) -         1.7749e-01 (2.83e-01) -           CEC19-MaTM06-T50         8.7484e-03 (1.74e-03)         1.7538e-01 (3.49e-02) -         3.5062e-01 (4.96e-02) -         2.9242e-01 (3.29e-02) -         1.6429e-01 (1.74e-01) -	CEC19-MaTMO6-T47	3.5384e-02 (1.19e-02)	1.5381e-01 (2.87e-02) -	3.6660e-01 (7.25e-02) -	2.8433e-01 (3.09e-02) -	1.4858e-01 (1.40e-01) -
CEC19-MaTMO6-T50 <b>8.7484e-03 (1.74e-03)</b> 1.7538e-01 (3.49e-02) - 3.5062e-01 (4.96e-02) - 2.9242e-01 (3.29e-02) - 1.6429e-01 (1.74e-01) -		` ′	` /	` '	` ′	` ′
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+/-/= Base 0/50/0 0/50/0 0/50/0 0/50/0	+/-/=	Base	0/50/0	0/50/0	0/50/0	0/50/0