**Table S2.1.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S1** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

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Task	Stats.	MaTDE	EMaTO-MKT	MaT-EDA		Stats.	MaTDE	EMaTO-MKT	MaT-EDA
$T_1$	median	1.06e-06	9.09e-25	8.66e-24	$T_{26}$	median	1.43e-06	7.36e-25	8.86e-24
	mean	1.31e-06	6.27e-16	2.09e-23		mean	2.16e-06	5.75e-12	2.08e-23
	std	9.34e-07	3.44e-15	3.76e-23		std	2.01e-06	3.15e-11	3.73e-23
т									
$T_2$	median	1.06e-06	8.05e-25	8.86e-24		median	1.24e-06	8.25e-25	8.59e-24
	mean	1.39e-06	8.61e-25	2.14e-23		mean	2.05e-06	8.81e-25	6.21e-22
	std	1.22e-06	2.77e-25	3.88e-23		std	2.36e-06	3.20e-25	3.29e-21
T <sub>3</sub>	median	1.17e-06	7.96e-25	8.85e-24	T <sub>28</sub>	median	1.23e-06	8.49e-25	8.94e-24
	mean	1.34e-06	8.97e-13	2.16e-23		mean	1.67e-06	8.38e-25	2.16e-23
	std	6.78e-07	4.91e-12	3.94e-23		std	1.56e-06	2.75e-25	3.94e-23
$T_4$	median	1.68e-06	8.23e-25	9.16e-24	$T_{29}$	median	1.38e-06	8.72e-25	8.85e-24
	mean	1.77e-06	9.89e-25	2.16e-23		mean	1.85e-06	9.42e-25	2.10e-23
	std	9.63e-07	4.23e-25	3.88e-23		std	1.33e-06	2.84e-25	3.72e-23
T <sub>5</sub>	median	9.24e-07	7.36e-25	8.61e-24		median	9.88e-07	7.81e-25	8.91e-24
15									
	mean	1.16e-06	1.40e-24	2.20e-23		mean	1.24e-06	1.92e-24	2.16e-23
	std	9.71e-07	3.36e-24	4.15e-23		std	7.86e-07	5.85e-24	3.97e-23
$T_6$	median	1.27e-06	9.22e-25	8.83e-24	$T_{31}$	median	9.92e-07	7.46e-25	9.29e-24
	mean	1.44e-06	1.63e-10	2.11e-23		mean	1.34e-06	3.30e-18	3.48e-12
	std	8.55e-07	8.94e-10	3.80e-23		std	9.26e-07	1.80e-17	1.91e-11
т			7.27.25						
T <sub>7</sub>	median	1.04e-06	7.37e-25	8.64e-24		median	1.19e-06	8.92e-25	9.04e-24
	mean	1.81e-05	8.95e-25	2.14e-10		mean	1.50e-06	6.22e-24	3.20e-09
	std	7.60e-05	5.59e-25	1.17e-09		std	1.15e-06	2.89e-23	1.75e-08
T <sub>8</sub>	median	1.19e-06	8.47e-25	8.90e-24		median	1.17e-06	8.58e-25	9.02e-24
- 8		1.36e-06	5.02e-08	2.14e-23	- 55		2.68e-06	9.19e-25	2.13e-23
	mean					mean			
	std	9.12e-07	2.75e-07	3.86e-23		std	6.29e-06	3.17e-25	3.82e-23
T9	median	1.19e-06	8.35e-25	8.62e-24	T <sub>34</sub>	median	1.25e-06	7.57e-25	8.72e-24
	mean	1.45e-06	9.42e-25	2.13e-23		mean	2.03e-06	2.02e-06	2.15e-23
	std	7.48e-07	4.09e-25	3.90e-23		std	2.53e-06	1.11e-05	3.97e-23
т					_				
$T_{10}$	median	1.45e-06	7.57e-25	8.91e-24		median	9.24e-07	7.95e-25	8.68e-24
	mean	2.00e-06	1.12e-07	2.08e-23		mean	1.02e-06	8.49e-25	2.14e-23
	std	1.86e-06	6.11e-07	3.68e-23		std	3.70e-07	2.63e-25	3.91e-23
T <sub>11</sub>	median	1.27e-06	9.27e-25	9.14e-24	T <sub>36</sub>	median	1.72e-06	8.06e-25	8.97e-24
	mean	1.49e-06	1.26e-24	2.13e-23		mean	2.46e-06	3.78e-21	2.13e-23
	std	9.27e-07	1.64e-24	3.77e-23		std	2.95e-06		
т								2.07e-20	3.80e-23
$T_{12}$	median	1.09e-06	7.55e-25	8.88e-24		median	1.03e-06	8.49e-25	8.75e-24
	mean	1.36e-06	1.76e-11	2.06e-23		mean	1.14e-06	1.37e-24	2.11e-23
	std	1.13e-06	9.62e-11	3.63e-23		std	7.09e-07	2.95e-24	3.80e-23
T <sub>13</sub>	median	1.22e-06	8.05e-25	8.86e-24		median	1.06e-06	8.39e-25	8.87e-24
- 13	mean	1.30e-06	1.39e-04			mean	1.29e-06	9.54e-25	2.16e-23
				2.20e-23					
_	std	5.39e-07	7.62e-04	4.03e-23		std	8.70e-07	4.39e-25	3.91e-23
$T_{14}$	median	8.86e-07	8.75e-25	9.10e-24	$T_{39}$	median	1.20e-06	8.47e-25	8.90e-24
	mean	1.08e-06	1.00e-24	2.16e-23		mean	1.41e-06	1.01e-24	2.18e-23
	std	5.35e-07	4.10e-25	3.82e-23		std	8.97e-07	6.13e-25	4.03e-23
T <sub>15</sub>	median	1.18e-06	9.29e-25	8.71e-24		median	8.87e-07	7.95e-25	9.16e-24
± 15									
	mean	1.30e-06	1.03e-24	2.14e-23		mean	1.01e-06	1.25e-24	2.37e-21
	std	5.71e-07	3.44e-25	3.92e-23		std	5.71e-07	2.44e-24	1.29e-20
T <sub>16</sub>	median	1.06e-06	8.49e-25	8.81e-24	$T_{41}$	median	1.28e-06	8.51e-25	8.75e-24
	mean	2.02e-06	1.44e-12	5.43e-11		mean	1.40e-06	8.56e-25	1.31e-08
	std	2.84e-06	7.89e-12	2.98e-10		std	8.39e-07	2.00e-25	7.16e-08
т									
T <sub>17</sub>	median	1.21e-06	6.91e-25	8.92e-24		median	1.23e-06	8.15e-25	8.83e-24
	mean	1.55e-06	7.69e-25	2.16e-23	<u> </u>	mean	1.27e-06	2.95e-24	1.59e-11
	std	1.14e-06	2.47e-25	3.93e-23		std	5.96e-07	1.16e-23	8.72e-11
T <sub>18</sub>	median	1.19e-06	8.96e-25	8.70e-24		median	1.46e-06	8.26e-25	8.96e-24
10	mean	1.38e-06	1.54e-21	2.19e-23		mean	1.45e-06	8.91e-25	1.86e-23
- T	std	8.97e-07	8.42e-21	4.06e-23		std	8.43e-07	3.40e-25	3.07e-23
T <sub>19</sub>	median	1.30e-06	8.02e-25	9.04e-24	T <sub>44</sub>	median	1.10e-06	8.07e-25	8.95e-24
	mean	1.68e-06	2.10e-22	1.01e-13		mean	1.21e-06	8.73e-25	2.16e-23
	std	1.53e-06	1.14e-21	5.53e-13		std	6.32e-07	3.04e-25	3.92e-23
T <sub>20</sub>	median	1.43e-06	9.33e-25	9.14e-24	T <sub>45</sub>	median	1.84e-06	7.39e-25	8.90e-24
1 20									
	mean	1.93e-06	1.50e-24	2.26e-23		mean	2.00e-06	7.86e-25	2.70e-14
	std	1.97e-06	3.18e-24	4.21e-23		std	1.16e-06	2.46e-25	1.48e-13
T <sub>21</sub>	median	8.57e-07	7.71e-25	8.74e-24	T <sub>46</sub>	median	9.52e-07	7.98e-25	9.05e-24
	mean	1.30e-06	8.19e-25	2.21e-23		mean	1.21e-06	8.52e-25	2.14e-23
	std					std	6.41e-07		
т		9.86e-07	2.94e-25	4.11e-23				2.87e-25	3.87e-23
T <sub>22</sub>	median	1.13e-06	8.51e-25	9.00e-24		median	9.81e-07	9.19e-25	9.06e-24
	mean	1.31e-06	1.44e-24	2.16e-23		mean	1.26e-06	2.46e-15	2.13e-23
	std	6.27e-07	2.77e-24	3.92e-23		std	1.04e-06	1.35e-14	3.80e-23
T <sub>23</sub>	median	1.52e-06	8.14e-25	8.60e-24		median	1.11e-06	7.24e-25	8.96e-24
± 23									
	mean	1.68e-06	9.28e-21	2.01e-23	1	mean	1.12e-06	8.33e-25	7.23e-07
	std	8.12e-07	3.72e-20	3.54e-23		std	6.47e-07	2.68e-25	3.96e-06
T <sub>24</sub>	median	1.08e-06	7.69e-25	9.07e-24	$T_{49}$	median	1.25e-06	8.19e-25	8.79e-24
	mean	1.20e-06	4.80e-24	2.10e-23		mean	1.28e-06	4.33e-06	2.19e-23
	std	6.09e-07	2.14e-23	3.77e-23		std	8.76e-07	2.37e-05	4.04e-23
т									
T <sub>25</sub>	median	8.34e-07	7.33e-25	8.87e-24		median	9.91e-08	7.60e-25	8.81e-24
	mean	1.09e-06	8.62e-25	2.78e-15		mean	1.21e-07	8.20e-25	9.04e-17
	std	6.35e-07	4.03e-25	1.52e-14		std	8.43e-08	3.16e-25	4.95e-16
	-	•							

**Table S2.2.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S2** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

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Task	Stats.	MaTDE	EMaTO-MKT	MaT-EDA	Task	Stats.	MaTDE	EMaTO-MKT	MaT-EDA
$T_1$	median	1.14e+02	4.84e+01	1.25e+02	$T_{26}$	median	9.38e+01	4.85e+01	6.79e+01
	mean	1.26e+02	7.29e+01	1.99e+03		mean	8.92e+01	7.80e+01	1.24e+03
	std	7.68e+01	6.92e+01	5.01e+03		std	4.14e+01	5.24e+01	3.37e+03
$T_2$	median	2.40e+02	1.39e+02	1.51e+02	T <sub>27</sub>	median	1.25e+02	4.86e+01	1.42e+02
	mean	3.07e+02	1.92e+02	7.58e+02		mean	1.32e+02	1.12e+02	6.30e+02
	std	2.69e+02	2.25e+02	1.92e+03		std	7.46e+01	1.79e+02	1.33e+03
$T_3$	median	1.05e+02	4.91e+01	1.52e+02	T <sub>28</sub>	median	4.95e+01	4.85e+01	1.62e+02
	mean	1.24e+02	1.26e+02	1.96e+03		mean	6.88e+01	1.02e+02	2.55e+03
	std	8.42e+01	1.88e+02	6.24e+03		std	2.71e+01	1.78e+02	5.00e+03
$T_4$	median	1.50e+02	4.91e+01	2.23e+02	$T_{29}$	median	5.02e+01	4.85e+01	6.61e+01
	mean	1.59e+02	1.62e+02	3.65e+03		mean	8.05e+01	9.80e+01	1.19e+03
	std	7.39e+01	2.18e+02	9.03e+03		std	5.27e+01	1.03e+02	3.95e+03
T <sub>5</sub>	median	1.67e+02	4.95e+01	1.42e+02	T <sub>30</sub>	median	1.55e+02	9.50e+01	2.57e+02
	mean	1.92e+02	1.04e+02	5.29e+03		mean	2.29e+02	1.96e+02	6.76e+02
	std	8.76e+01	8.42e+01	2.03e+04		std	2.34e+02	2.94e+02	1.20e+03
T <sub>6</sub>	median	7.40e+01	4.88e+01	1.51e+02	T <sub>31</sub>	median	1.27e+02	5.16e+01	3.15e+02
	mean	1.18e+02	1.52e+02	9.79e+02		mean	1.50e+02	1.33e+02	1.04e+03
	std	1.46e+02	3.62e+02	1.96e+03		std	1.04e+02	1.19e+02	1.60e+03
T <sub>7</sub>	median	1.16e+02	4.84e+01	1.72e+02	T <sub>32</sub>	median	2.08e+02	1.23e+02	2.96e+02
	mean	1.39e+02	1.83e+02	1.30e+03		mean	2.16e+02	1.22e+02	1.04e+03
	std	7.38e+01	4.45e+02	3.56e+03		std	1.11e+02	7.63e+01	1.76e+03
T <sub>8</sub>	median	8.49e+01	1.02e+02	9.07e+01	T <sub>33</sub>	median	9.92e+01	4.83e+01	1.54e+02
	mean	9.19e+01	1.18e+02	1.19e+03		mean	9.52e+01	6.48e+01	4.02e+03
	std	4.70e+01	8.88e+01	2.61e+03		std	4.11e+01	6.42e+01	9.44e+03
T <sub>9</sub>	median	1.85e+02	4.91e+01	1.94e+02	T <sub>34</sub>	median	6.30e+01	4.82e+01	2.34e+02
	mean	2.49e+02	2.63e+02	9.13e+02		mean	8.54e+01	1.14e+02	8.72e+03
	std	2.10e+02	3.23e+02	2.03e+03		std	7.02e+01	1.73e+02	3.15e+04
T <sub>10</sub>	median	5.05e+01	4.80e+01	1.02e+02	T <sub>35</sub>	median	9.73e+01	4.83e+01	4.13e+02
10	mean	9.19e+01	9.58e+01	3.74e+03		mean	8.51e+01	8.93e+01	4.32e+03
	std	7.45e+01	1.52e+02	1.75e+04		std	3.11e+01	1.28e+02	8.79e+03
T <sub>11</sub>	median	8.40e+01	4.85e+01	1.01e+02	T <sub>36</sub>	median	1.13e+02	4.91e+01	2.74e+02
- 11	mean	9.26e+01	9.00e+01	2.29e+03	2.30	mean	1.46e+02	1.66e+02	2.14e+03
	std	4.10e+01	1.41e+02	5.91e+03		std	8.81e+01	3.50e+02	7.32e+03
T <sub>12</sub>	median	9.12e+01	4.89e+01	2.02e+02	T <sub>37</sub>	median	8.30e+01	4.90e+01	1.10e+02
* 12	mean	9.17e+01	8.19e+01	2.60e+03	13/	mean	1.09e+02	9.91e+01	6.75e+03
	std	4.53e+01	5.24e+01	9.70e+03		std	6.97e+01	1.03e+02	1.59e+04
T <sub>13</sub>	median	9.96e+01	4.91e+01	1.25e+02	T <sub>38</sub>	median	1.98e+02	4.89e+01	1.71e+02
113	mean	1.44e+02	2.10e+02	6.73e+02	130	mean	2.24e+02	2.23e+02	2.46e+03
	std	1.50e+02	5.18e+02	2.08e+03		std	1.19e+02	5.12e+02	6.24e+03
T <sub>14</sub>	median	6.94e+01	4.85e+01	1.50e+02	T <sub>39</sub>	median	3.90e+02	1.64e+02	1.35e+02
1 14	mean	7.44e+01	8.60e+01	3.99e+03	1 39	mean	4.31e+02	4.91e+02	8.22e+02
	std	3.03e+01	7.90e+01	1.36e+04		std	3.28e+02	8.43e+02	1.51e+03
T <sub>15</sub>	median	1.69e+02	1.16e+02	2.48e+02	T <sub>40</sub>	median	1.22e+02	4.85e+01	3.25e+02
1 15	mean	2.98e+02	5.23e+02	2.00e+03	1 40	mean	1.27e+02	1.26e+02	4.09e+03
	std	3.44e+02	1.20e+03	5.82e+03		std	6.80e+01	2.10e+02	1.00e+04
T <sub>16</sub>	median	5.12e+01	4.77e+01	2.06e+02	T <sub>41</sub>	median	2.35e+02	1.40e+02	1.48e+02
1 16	mean	7.79e+01	9.54e+01	2.19e+03	141	mean	2.69e+02	3.86e+02	1.94e+03
	std	4.69e+01	1.48e+02			std	1.09e+02	6.41e+02	6.10e+03
т				5.81e+03	т	median			
T <sub>17</sub>	median	1.07e+02	4.89e+01	1.64e+02	T <sub>42</sub>		6.48e+01	4.92e+01	1.73e+02
	mean	1.17e+02	1.22e+02	3.72e+03	-	mean	8.98e+01 6.43e+01	1.52e+02	2.53e+03
т	std	5.76e+01	2.65e+02 4.91e+01	6.47e+03	т	std median	8.81e+01	2.84e+02 4.85e+01	6.19e+03
T <sub>18</sub>	median	1.76e+02		1.42e+02	T <sub>43</sub>	median	9.58e+01		6.94e+02
	mean	2.25e+02	1.67e+02	9.98e+02	-	mean		6.84e+01	5.01e+03
т	std median	1.57e+02	2.75e+02	2.31e+03	т	std	5.74e+01	5.23e+01	1.12e+04
T <sub>19</sub>		5.37e+01	4.82e+01 1.27e+02	3.08e+02	T <sub>44</sub>	median	9.83e+01	4.86e+01	1.80e+02
	mean	7.61e+01		4.16e+03	1	mean	1.12e+02	2.44e+02	9.19e+02
т	std	3.73e+01	2.62e+02	1.20e+04	т	std	7.87e+01	6.61e+02	2.12e+03
T <sub>20</sub>	median	1.26e+02	4.86e+01	6.63e+01	T <sub>45</sub>	median	1.22e+02	4.91e+01	1.55e+02
	mean	1.14e+02	7.69e+01	2.47e+03	-	mean	1.56e+02	2.73e+02	3.51e+03
т	std	4.38e+01	5.97e+01	6.23e+03	T	std	1.09e+02	7.73e+02	9.54e+03
$T_{21}$	median	8.26e+01	7.94e+01	1.39e+02	T <sub>46</sub>	median	7.44e+01	4.91e+01	2.36e+02
	mean	1.11e+02	1.51e+02	1.09e+03	<b>-</b>	mean	1.10e+02	9.33e+01	5.40e+03
т	std	8.41e+01	2.25e+02	2.94e+03	т	std	9.55e+01	6.61e+01	2.50e+04
T <sub>22</sub>	median	9.62e+01	4.81e+01	1.65e+02	T <sub>47</sub>	median	2.26e+02	1.10e+02	2.05e+02
	mean	9.75e+01	9.26e+01	2.89e+03	-	mean	3.19e+02	1.27e+02	8.52e+02
т.	std	4.33e+01	1.26e+02	1.17e+04	T	std	2.45e+02	1.34e+02	1.78e+03
T <sub>23</sub>	median	1.31e+02	4.87e+01	5.05e+02	T <sub>48</sub>	median	1.40e+02	4.92e+01	2.40e+02
	mean	1.41e+02	1.08e+02	3.49e+03		mean	2.14e+02	2.44e+02	1.67e+03
	std	7.53e+01	1.90e+02	1.03e+04		std	1.72e+02	3.96e+02	4.16e+03
T <sub>24</sub>	median	7.73e+01	4.89e+01	1.95e+02	$T_{49}$	median	1.03e+02	4.86e+01	1.79e+02
	mean	7.59e+01	1.46e+02	6.30e+03		mean	1.18e+02	1.68e+02	6.50e+02
	std	2.36e+01	1.93e+02	1.97e+04		std	6.66e+01	2.90e+02	1.18e+03
$T_{25}$	median	1.01e+02	4.87e+01	9.17e+01	T <sub>50</sub>	median	1.03e+02	4.88e+01	3.85e+02
	mean	1.08e+02	2.76e+02	1.76e+03		mean	1.10e+02	2.24e+02	1.15e+03
	std	5.89e+01	4.29e+02	6.12e+03		std	4.86e+01	4.56e+02	1.86e+03

**Table S2.3.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S3** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

Task	Stats.	MaTDE	EMaTO-MKT	MaT-EDA	Task Stat	s. MaTDE	EMaTO-MKT	MaT-EDA
Tı	median	2.74e+02	1.05e+02	4.33e+01	T <sub>26</sub> med		9.45e+01	3.98e+01
11	mean	2.45e+02	1.09e+02	4.25e+01	mea		1.04e+02	4.08e+01
	std	6.48e+01	3.27e+01	9.14e+00	std	5.13e+01	2.92e+01	9.06e+00
T <sub>2</sub>	median	2.83e+02	9.85e+01	4.08e+01	T <sub>27</sub> med		1.11e+02	3.58e+01
	mean	2.64e+02	1.09e+02	4.18e+01	mea		1.12e+02	3.69e+01
	std	6.58e+01	3.35e+01	8.69e+00	std	5.95e+01	2.85e+01	7.25e+00
T <sub>3</sub>	median	2.62e+02	1.05e+02	3.73e+01	T <sub>28</sub> med		1.05e+02	4.18e+01
	mean	2.58e+02	1.03e+02	3.88e+01	mea	an 2.74e+02	1.09e+02	4.16e+01
	std	5.90e+01	2.08e+01	8.24e+00	std	5.05e+01	3.12e+01	7.23e+00
$T_4$	median	3.00e+02	1.09e+02	3.78e+01	T <sub>29</sub> med		1.02e+02	3.65e+01
	mean	2.76e+02	1.08e+02	3.81e+01	mea		1.01e+02	4.01e+01
	std	5.14e+01	2.01e+01	5.96e+00	std	5.00e+01	2.59e+01	1.17e+01
T <sub>5</sub>	median	2.87e+02	1.03e+02	4.43e+01	T <sub>30</sub> med		1.00e+02	4.22e+01
	mean	2.65e+02	1.02e+02	4.26e+01	mea		1.04e+02	4.31e+01
	std	6.19e+01	2.65e+01	9.36e+00	std	8.50e+01	2.40e+01	8.45e+00
T <sub>6</sub>	median	2.79e+02	1.14e+02	4.18e+01	T <sub>31</sub> med		1.00e+02	4.43e+01
-	mean	2.75e+02	1.14e+02	4.06e+01	mea		1.07e+02	4.29e+01
т	std	6.03e+01	2.95e+01	8.44e+00	std	5.07e+01	3.73e+01	1.01e+01
T <sub>7</sub>	median	3.09e+02 2.95e+02	1.10e+02 1.11e+02	3.93e+01 4.21e+01	T <sub>32</sub> med		9.75e+01 1.05e+02	3.98e+01 4.26e+01
	mean std	7.04e+01	2.86e+01	1.05e+01	mea std	4.63e+01	2.70e+01	
T <sub>8</sub>	median	2.93e+02	1.17e+02	4.33e+01	T <sub>33</sub> med	dian 2.92e+02	9.45e+01	1.03e+01 3.88e+01
18	mean	2.93e+02 2.93e+02	1.1/e+02 1.16e+02	4.10e+01	mea		9.75e+01	4.04e+01
	std	4.59e+01	3.27e+01	8.27e+00	std	7.08e+01	2.06e+01	9.65e+00
T <sub>9</sub>	median	2.75e+02	1.06e+02	3.98e+01	T <sub>34</sub> med		1.11e+02	3.83e+01
/	mean	2.58e+02	1.08e+02	3.99e+01	mea		1.14e+02	4.10e+01
	std	6.21e+01	2.63e+01	7.72e+00	std	6.38e+01	2.71e+01	1.03e+01
$T_{10}$	median	2.80e+02	1.04e+02	4.08e+01	T <sub>35</sub> med	dian 2.77e+02	1.02e+02	3.83e+01
	mean	2.61e+02	1.03e+02	4.24e+01	mea	an 2.59e+02	1.05e+02	3.91e+01
	std	5.85e+01	2.07e+01	8.21e+00	std	6.98e+01	2.95e+01	7.37e+00
$T_{11}$	median	2.81e+02	1.12e+02	3.63e+01	T <sub>36</sub> med		1.11e+02	3.83e+01
	mean	2.80e+02	1.12e+02	3.92e+01	mea		1.12e+02	4.00e+01
	std	5.81e+01	3.15e+01	1.24e+01	std	6.67e+01	2.94e+01	9.54e+00
$T_{12}$	median	2.87e+02	1.12e+02	4.28e+01	T <sub>37</sub> med		1.09e+02	3.73e+01
	mean	2.78e+02	1.12e+02	4.23e+01	mea		1.09e+02	3.91e+01
т	std median	5.46e+01	2.84e+01 9.85e+01	9.71e+00	T <sub>38</sub> med	4.61e+01	2.46e+01	8.12e+00 3.98e+01
T <sub>13</sub>	mean	3.04e+02 2.77e+02	1.07e+02	3.75e+01	T <sub>38</sub> med		1.05e+02 1.16e+02	4.06e+01
	std	7.29e+01	3.62e+01	3.84e+01 8.38e+00	std	5.11e+01	2.79e+01	7.68e+00
T <sub>14</sub>	median	2.85e+02	1.00e+02	4.08e+01	T <sub>39</sub> med		1.22e+02	4.03e+01
114	mean	2.85e+02	1.03e+02	3.97e+01	mea		1.14e+02	3.98e+01
	std	4.59e+01	2.58e+01	8.99e+00	std	7.79e+01	3.08e+01	1.00e+01
T <sub>15</sub>	median	2.95e+02	1.10e+02	3.98e+01	T <sub>40</sub> med		9.60e+01	3.88e+01
	mean	2.94e+02	1.07e+02	4.18e+01	mea		1.04e+02	3.92e+01
	std	4.59e+01	2.46e+01	9.06e+00	std	5.98e+01	2.72e+01	9.45e+00
T <sub>16</sub>	median	2.97e+02	1.02e+02	4.48e+01	T <sub>41</sub> med		1.07e+02	3.78e+01
	mean	2.78e+02	1.08e+02	4.27e+01	mea		1.09e+02	3.99e+01
	std	5.55e+01	2.69e+01	8.40e+00	std	4.20e+01	2.59e+01	9.00e+00
T <sub>17</sub>	median	2.82e+02	1.11e+02	3.73e+01	T <sub>42</sub> med		1.03e+02	3.98e+01
	mean	2.78e+02	1.09e+02	3.91e+01	mea		1.11e+02	4.12e+01
T	std	4.33e+01	2.25e+01	9.27e+00	std	6.84e+01	2.26e+01	9.43e+00
T <sub>18</sub>	median	2.76e+02	1.15e+02	3.58e+01	T <sub>43</sub> med		1.11e+02	4.03e+01
<del> </del>	mean std	2.64e+02 6.59e+01	1.17e+02 2.86e+01	3.83e+01 9.10e+00	mea std	2.76e+02 5.99e+01	1.10e+02 2.90e+01	4.15e+01
T <sub>19</sub>	median	2.74e+02	1.03e+02	3.98e+01	T <sub>44</sub> med		1.04e+02	1.18e+01 3.58e+01
1 19	mean	2.63e+02	1.05e+02 1.05e+02	3.95e+01	mea		1.09e+02	3.77e+01
<b>—</b>	std	5.11e+01	2.58e+01	7.69e+00	std	3.30e+01	3.20e+01	1.26e+01
T <sub>20</sub>	median	2.92e+02	1.08e+02	3.83e+01	T <sub>45</sub> med		1.02e+02	4.28e+01
- 20	mean	2.72e+02	1.06e+02	3.81e+01	mea mea		1.04e+02	4.37e+01
	std	6.73e+01	2.20e+01	8.70e+00	std	6.35e+01	2.60e+01	9.24e+00
T <sub>21</sub>	median	2.85e+02	1.06e+02	4.28e+01	T <sub>46</sub> med		1.05e+02	4.38e+01
	mean	2.75e+02	1.05e+02	4.34e+01	mea	an 2.86e+02	1.06e+02	4.39e+01
	std	3.79e+01	2.47e+01	7.33e+00	std	6.59e+01	2.85e+01	1.13e+01
T <sub>22</sub>	median	2.95e+02	1.03e+02	3.98e+01	T <sub>47</sub> med		9.85e+01	4.18e+01
	mean	2.76e+02	1.06e+02	3.93e+01	mea		1.08e+02	4.13e+01
	std	4.98e+01	2.43e+01	8.48e+00	std	5.44e+01	2.81e+01	9.65e+00
$T_{23}$	median	2.94e+02	1.08e+02	3.96e+01	T <sub>48</sub> med		1.13e+02	4.13e+01
	mean	2.76e+02	1.16e+02	3.98e+01	mea		1.12e+02	4.19e+01
T	std	5.97e+01	3.08e+01	8.71e+00	std	7.90e+01	2.62e+01	1.15e+01
T <sub>24</sub>	median	2.76e+02	1.08e+02	3.78e+01	T <sub>49</sub> med		9.85e+01	3.92e+01
	mean std	2.71e+02 5.02e+01	1.12e+02 3.42e+01	4.15e+01	mea std	2.78e+02 3.90e+01	1.01e+02 2.75e+01	4.04e+01 7.53e+00
T <sub>25</sub>	median	2.70e+02	3.42e+01 1.02e+02	1.16e+01 3.68e+01	T <sub>50</sub> med		1.05e+01	7.53e+00 3.99e+01
1 25	mean	2.59e+02	1.10e+02	4.11e+01	mea		1.03e+02 1.03e+02	3.99e+01
<b> </b>	std	5.73e+01	2.45e+01	1.19e+01	std	6.57e+01	2.91e+01	6.80e+00
<u> </u>	Jiu	3.730 101	2.730 01	1.176 101	siu	0.570101	2.710 01	0.000 100

**Table S2.4.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S4** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

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Task	Stats.	MaTDE	EMaTO-MKT	MaT-EDA	Task Stats.	MaTDE	EMaTO-MKT	MaT-EDA
$T_1$	median	4.09E-06	1.61E-24	1.24e-23	T <sub>26</sub> median	1.01e+02	4.88e+01	2.34e+02
	mean	5.47E-06	4.54E-10	2.41e-23	mean	9.86e+01	3.21e+02	1.11e+04
	std	3.89E-06	2.49E-09	4.62e-23	std	4.27e+01	7.45e+02	2.41e+04
$T_2$	median	1.17E+02	4.80E+01	1.01e+03	T <sub>27</sub> median	2.72e+00	3.61e-13	9.92e-13
	mean	1.21E+02	1.47E+02	5.95e+03	mean	2.66e+00	5.85e-05	1.16e-12
	std	4.79E+01	2.56E+02	1.01e+04	std	4.32e-01	3.20e-04	6.91e-13
$T_3$	median	2.50E+00	3.74E-13	1.00e-12	T <sub>28</sub> median	6.22e-06	1.52e-24	1.26e-23
	mean	2.60E+00	3.79E-13	1.18e-12	mean	8.09e-06	2.06e-21	2.43e-23
	std	3.83E-01	4.93E-14	7.39e-13	std	6.21e-06	1.13e-20	4.53e-23
T <sub>4</sub>	median	6.52E-06	1.68E-24	1.23e-23	T <sub>29</sub> median	3.22e+02	1.32e+02	4.31e+02
	mean	6.94E-06	1.29E-09	2.40e-23	mean	3.10e+02	7.87e+02	2.17e+03
	std	3.89E-06	7.00E-09	4.49e-23	std	1.51e+02	1.75e+03	5.57e+03
T <sub>5</sub>	median	1.60E+02	4.86E+01	5.96e+02	T <sub>30</sub> median	2.55e+00	3.93e-13	1.00e-12
	mean	1.77E+02	1.33E+02	5.77e+03	mean	2.59e+00	8.56e-10	1.19e-12
	std	9.26E+01	3.08E+02	1.64e+04	std	3.60e-01	3.62e-09	7.31e-13
T <sub>6</sub>	median	2.75E+00	3.10E-13	1.01e-12	T <sub>31</sub> median	6.42e-06	1.44e-24	1.21e-23
-0	mean	2.75E+00	5.59E-08	1.19e-12	mean	7.87e-06	1.33e-24	2.38e-23
	std	5.17E-01	3.06E-07	7.42e-13	std	8.46e-06	4.19e-25	4.56e-23
T <sub>7</sub>	median	4.32E-06	1.60E-24	1.23e-23	T <sub>32</sub> median	6.14e+02	2.94e+02	4.29e+02
1/	mean	5.15E-06	1.12E-09	2.49e-23	mean	8.15e+02	4.82e+02	8.95e+02
	std	3.64E-06	6.14E-09	4.76e-23	std	4.71e+02	5.12e+02	1.13e+03
T <sub>8</sub>	median	1.46E+02	4.87E+01	3.10e+02	T <sub>33</sub> median	2.68e+00	3.86e-13	9.89e-13
18		2.08E+02	1.56E+02			2.70e+00	4.02e-13	1.18e-12
<b>-</b>	mean std	2.42E+02 2.42E+02	3.28E+02	1.24e+03	mean std	4.59e-01	1.08e-13	
T <sub>9</sub>				3.06e+03 9.87e-13			1.08e-13 1.11e-24	7.31e-13
19	median	2.60E+00	3.38E-13		T <sub>34</sub> median	5.85e-06		1.23e-23
<b> </b>	mean	2.52E+00	4.58E-02	1.17e-12	mean	6.94e-06	3.63e-19	2.29e-23
т	std	4.24E-01	2.51E-01	7.17e-13	std	3.69e-06	1.88e-18	4.08e-23
T <sub>10</sub>	median	5.48E-06	1.57E-24	1.25e-23	T <sub>35</sub> median	7.02e+02	2.19e+02	4.39e+02
<u> </u>	mean	5.95E-06	4.90E-23	2.39e-23	mean	8.48e+02	1.04e+03	1.32e+03
	std	3.41E-06	2.60E-22	4.41e-23	std	5.88e+02	1.29e+03	1.76e+03
$T_{11}$	median	1.22E+02	4.83E+01	1.46e+02	T <sub>36</sub> median	2.37e+00	3.85e-13	9.92e-13
	mean	1.36E+02	1.97E+02	1.77e+03	mean	2.60e+00	4.04e-13	1.18e-12
	std	7.95E+01	6.64E+02	4.52e+03	std	6.58e-01	1.91e-13	7.42e-13
$T_{12}$	median	2.45E+00	4.06E-13	9.96e-13	T <sub>37</sub> median	4.00e-06	1.12e-24	1.24e-23
	mean	2.50E+00	8.01E-07	1.18e-12	mean	6.43e-06	1.48e-24	2.30e-23
	std	5.95E-01	4.39E-06	7.23e-13	std	5.96e-06	1.99e-24	4.03e-23
T <sub>13</sub>	median	4.36E-06	1.63E-24	1.22e-23	T <sub>38</sub> median	1.22e+03	5.25e+02	2.32e+02
	mean	5.95E-06	1.58E-24	2.46e-23	mean	1.21e+03	1.34e+03	8.01e+02
	std	4.56E-06	2.37E-25	4.83e-23	std	5.12e+02	1.59e+03	1.26e+03
T <sub>14</sub>	median	2.83E+02	1.36E+02	2.69e+02	T <sub>39</sub> median	2.32e+00	4.06e-13	9.85e-13
	mean	4.09E+02	5.73E+02	3.09e+03	mean	2.35e+00	4.45e-13	1.17e-12
	std	2.95E+02	9.60E+02	8.95e+03	std	5.77e-01	1.90e-13	7.45e-13
T <sub>15</sub>	median	2.50E+00	3.90E-13	9.87e-13	T <sub>40</sub> median	6.38e-06	1.41e-24	1.22e-23
	mean	2.57E+00	3.89E-13	1.17e-12	mean	6.63e-06	1.47e-24	2.31e-23
	std	3.96E-01	3.39E-14	7.19e-13	std	3.67e-06	2.36e-25	4.28e-23
T <sub>16</sub>	median	7.34E-06	1.56E-24	1.24e-23	T <sub>41</sub> median	2.50e+02	4.84e+01	2.57e+02
	mean	1.68E-05	1.61E-24	2.41e-23	mean	3.22e+02	3.02e+02	3.79e+03
	std	4.16E-05	2.74E-25	4.51e-23	std	2.47e+02	5.74e+02	
T <sub>17</sub>	median	1.38E+02	1.31E+02				3./4CTUZ	
1,	mean			2.22e+02	T <sub>42</sub> median	2.79e+00	3.88e-13	8.90e+03 <b>9.90e-13</b>
	_	2.25E+02	5.22E+02	1.37e+03	T <sub>42</sub> median mean			8.90e+03
т	std	2.25E+02 2.62E+02			<del> </del>	2.79e+00	3.88e-13	8.90e+03 <b>9.90e-13</b>
$T_{18}$	std median		5.22E+02	1.37e+03	mean	2.79e+00 2.71e+00	3.88e-13 3.57e-04	8.90e+03 9.90e-13 1.16e-12
1 18	median	2.62E+02	5.22E+02 8.70E+02	1.37e+03 2.40e+03	mean std T <sub>43</sub> median	2.79e+00 2.71e+00 4.54e-01	3.88e-13 3.57e-04 1.95e-03	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23
1 18	median mean	2.62E+02 2.64E+00 2.71E+00	5.22E+02 8.70E+02 3.93E-13 1.57E-10	1.37e+03 2.40e+03 9.90e-13 1.18e-12	mean std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23
	median mean std	2.62E+02 2.64E+00 2.71E+00 4.31E-01	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13	mean std T <sub>43</sub> median mean std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23
T <sub>19</sub>	median mean std median	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23	mean std T43 median mean std T44 median	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02
	median mean std median mean	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23	mean std T <sub>43</sub> median mean std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03
T <sub>19</sub>	median mean std median mean std	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23	mean std T43 median mean std T44 median mean std std T44 std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04
	median mean std median mean std median	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   std   T45   median   mean   std   T45   median   med	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13
T <sub>19</sub>	median mean std median mean std median mean	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 2.68e+00	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03
T <sub>19</sub>	median mean std median mean std median mean std	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 1.46E+02	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T45   median   mean   std   T45   median   mean   std   s	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 2.68e+00 3.68e-01	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02
T <sub>19</sub>	median mean std median mean std median mean std median	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 1.46E+02 2.81E+00	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13	mean   std     std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 2.68e+00 3.68e-01 4.90e-06	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23
T <sub>19</sub>	median mean std median mean std median mean std median median median	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 1.46E+02 2.81E+00 2.84E+00	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T46   median   mean   std   T46   median   mean	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 2.68e+00 3.68e-01 4.90e-06 4.88e-06	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23
T <sub>19</sub> T <sub>20</sub>	median mean std median mean std median mean std median mean std	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 1.46E+02 2.81E+00 2.84E+00 4.07E-01	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T45   median   mean   std   T46   median   mean   std   T46   median   mean   std   std   T46   median   mean   std   std   std   mean   std   std   mean   std   mean   std   mean   std   median   std   mean   std   mean   std   median   mean   me	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 2.68e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.46e-07 1.40e-24 1.38e-24 2.53e-25	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23
T <sub>19</sub>	median mean std median mean std median mean std median median mean std	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 1.46E+02 2.81E+00 4.07E-01 4.27E-06	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T46   median   mean   std   T46   median   mean   std   T47   median   mean   std   T47   median   mean   std   T47   median   median   mean   std   T47   median   median   mean   std   T47   median	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 2.68e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.60e+02	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02
T <sub>19</sub> T <sub>20</sub>	median mean std median mean mean	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 1.46E+02 2.81E+00 4.07E-01 4.27E-06 6.15E-06	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 8.45E-22	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23 2.42e-23	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T46   median   mean   std   T47   median   mean   std   T47   median   mean   mean   std   T47   median   mean	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 2.68e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.60e+02 1.55e+02	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04
T <sub>19</sub> T <sub>20</sub> T <sub>21</sub>	median mean std median mean std median mean std median mean std median median mean std std	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 1.46E+02 2.81E+00 2.84E+00 4.07E-01 4.27E-06 6.15E-06 4.58E-06	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 8.45E-22 4.62E-21	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23 2.42e-23 4.55e-23	mean std  T43 median mean std  T44 median mean std  T45 median mean std  T46 median mean std  T46 median mean std  T47 median mean std  T48 median mean std  T49 median mean std  T40 median mean std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 2.68e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.60e+02 1.55e+02 8.33e+01	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02 1.96e+02	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04 2.84e+04
T <sub>19</sub> T <sub>20</sub>	median mean std median std median	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 1.46E+02 2.81E+00 2.84E+00 4.07E-01 4.27E-06 6.15E-06 4.58E-06 2.64E+02	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 8.45E-22 4.62E-21 8.26E+01	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23 2.42e-23 2.42e-23 2.64e+02	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T46   median   mean   std   T46   median   mean   std   T47   median   mean   std   T48   median   mean   std   T48   median   mean   std   T48   median   mean   std   T48   median   median   mean   std   T48   median   median   mean   std   T48   median   median	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.62e+02 2.60e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.60e+02 1.55e+02 8.33e+01 2.53e+00	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02 1.96e+02 3.77e-13	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04 2.84e+04 9.87e-13
T <sub>19</sub> T <sub>20</sub> T <sub>21</sub>	median mean std median mean	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 2.81E+00 2.84E+00 4.07E-01 4.27E-06 6.15E-06 4.58E-06 2.64E+02 3.60E+02	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 8.45E-22 4.62E-21 8.26E+01 5.10E+02	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23 2.42e-23 4.55e-23 2.64e+02 4.58e+02	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T46   median   mean   std   T47   median   mean   std   T48   median   mean   std   T48   median   mean   std   T48   median   mean   mean   std   T48   median   mean	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.62e+02 2.68e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.60e+02 1.55e+02 8.33e+01 2.53e+00 2.48e+00	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02 1.96e+02 3.77e-13 2.36e-09	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04 2.84e+04 9.87e-13 9.32e-04
T <sub>19</sub> T <sub>20</sub> T <sub>21</sub> T <sub>22</sub>	median mean std	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 1.46E+02 2.81E+00 4.07E-01 4.27E-06 6.15E-06 4.58E-06 2.64E+02 3.60E+02 4.09E+02	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 8.45E-22 4.62E-21 8.26E+01 5.10E+02 8.36E+02	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23 2.42e-23 4.55e-23 2.64e+02 4.58e+02 6.21e+02	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T46   median   mean   std   T47   median   mean   std   T48   median   mean   std   mean   std   mean   std   mean   std   mean   std   mean   std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 2.68e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.60e+02 1.55e+02 8.33e+01 2.53e+00 2.48e+00 3.75e-01	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02 1.96e+02 3.77e-13 2.36e-09 1.29e-08	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04 2.84e+04 9.87e-13 9.32e-04 5.10e-03
T <sub>19</sub> T <sub>20</sub> T <sub>21</sub>	median mean std median std median mean std	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 2.81E+00 2.84E+00 4.07E-01 4.27E-06 6.15E-06 4.58E-06 2.64E+02 3.60E+02 4.09E+02 2.65E+00	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 8.45E-22 4.62E-21 8.26E+01 5.10E+02 8.36E+02 3.37E-13	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23 2.42e-23 4.55e-23 2.64e+02 4.58e+02 6.21e+02 9.73e-13	mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T46   median   mean   std   T47   median   mean   std   T48   median   mean   std   T48   median   mean   std   T49   median   median   mean   std   T49   median   median   mean   std   T49   median   medi	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.60e+02 1.55e+02 8.33e+01 2.53e+00 2.48e+00 3.75e-01 6.18e-06	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02 3.77e-13 2.36e-09 1.29e-08 1.81e-24	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04 2.84e+04 9.87e-13 9.32e-04 5.10e-03 1.20e-23
T <sub>19</sub> T <sub>20</sub> T <sub>21</sub> T <sub>22</sub>	median mean std median mean	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.46E+02 2.81E+00 4.07E-01 4.27E-06 6.15E-06 4.58E-06 2.64E+02 3.60E+02 4.09E+02 2.65E+00 2.71E+00	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 8.45E-22 4.62E-21 8.26E+01 5.10E+02 8.36E+02 3.37E-13 5.27E-13	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23 2.42e-23 4.55e-23 2.64e+02 4.58e+02 6.21e+02 9.73e-13 1.17e-12	mean   std   median   mean   std   T43   median   mean   std   T44   median   mean   std   T45   median   mean   std   T46   median   mean   std   T47   median   mean   std   T48   median   mean   std   T48   median   mean   std   T49   median   mean   std   T49   median   mean   mean   std   T49   median   mean	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.60e+02 1.55e+02 8.33e+01 2.53e+00 2.48e+00 3.75e-01 6.18e-06 8.14e-06	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02 3.77e-13 2.36e-09 1.29e-08 1.81e-24	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04 2.84e+04 9.87e-13 9.32e-04 5.10e-03 1.20e-23 2.38e-23
$T_{19}$ $T_{20}$ $T_{21}$ $T_{22}$ $T_{23}$	median mean std median	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 2.81E+00 4.07E-01 4.27E-06 6.15E-06 4.58E-06 2.64E+02 3.60E+02 4.09E+02 2.65E+00 2.71E+00	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 8.45E-22 4.62E-21 8.26E+01 5.10E+02 8.36E+02 3.37E-13 5.27E-13 8.01E-13	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23 2.42e-23 4.55e-23 2.64e+02 4.58e+02 6.21e+02 9.73e-13 1.17e-12 7.75e-13	mean   std     median   mean   std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.55e+02 8.33e+01 2.53e+00 3.75e-01 6.18e-06 8.14e-06 6.32e-06	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02 3.77e-13 2.36e-09 1.29e-08 1.81e-24 1.90e-24 6.70e-25	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04 2.84e+04 9.87e-13 9.32e-04 5.10e-03 1.20e-23 2.38e-23 4.53e-23
T <sub>19</sub> T <sub>20</sub> T <sub>21</sub> T <sub>22</sub>	median mean std median std median std median std median std median std median	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 2.81E+00 2.84E+00 4.07E-01 4.27E-06 6.15E-06 4.58E-06 2.64E+02 3.60E+02 4.09E+02 2.65E+00 2.71E+00 4.03E-01 6.70E-06	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 4.62E-21 8.26E+01 5.10E+02 8.36E+02 3.37E-13 5.27E-13 8.01E-13 1.71E-24	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.17e-12 7.25e-13 1.24e-23 2.42e-23 2.42e-23 2.64e+02 4.58e+02 6.21e+02 9.73e-13 1.17e-12 7.75e-13 1.17e-12	mean std  T43 median mean std  T44 median mean std  T45 median mean std  T46 median mean std  T46 median mean std  T47 median mean std  T48 median mean std  T48 median mean std  T48 median mean std  T49 median mean std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.62e+02 2.63e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.60e+02 1.55e+02 8.33e+01 2.53e+00 3.75e-01 6.18e-06 8.14e-06 6.32e-06 7.39e+02	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02 1.96e+02 3.77e-13 2.36e-09 1.29e-08 1.81e-24 1.90e-24 6.70e-25 1.73e+02	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04 2.84e+04 9.87e-13 9.32e-04 5.10e-03 1.20e-23 2.38e-23 4.53e-23 4.97e+02
$T_{19}$ $T_{20}$ $T_{21}$ $T_{22}$ $T_{23}$	median mean std median	2.62E+02 2.64E+00 2.71E+00 4.31E-01 5.28E-06 9.18E-06 9.19E-06 1.29E+02 1.69E+02 2.81E+00 4.07E-01 4.27E-06 6.15E-06 4.58E-06 2.64E+02 3.60E+02 4.09E+02 2.65E+00 2.71E+00	5.22E+02 8.70E+02 3.93E-13 1.57E-10 8.55E-10 1.24E-24 1.20E-24 3.39E-25 4.85E+01 4.42E+02 1.23E+03 3.49E-13 7.20E-07 3.94E-06 1.65E-24 8.45E-22 4.62E-21 8.26E+01 5.10E+02 8.36E+02 3.37E-13 5.27E-13 8.01E-13	1.37e+03 2.40e+03 9.90e-13 1.18e-12 7.56e-13 1.21e-23 2.34e-23 4.38e-23 1.81e+02 4.74e+03 1.38e+04 9.90e-13 1.17e-12 7.25e-13 1.24e-23 2.42e-23 4.55e-23 2.64e+02 4.58e+02 6.21e+02 9.73e-13 1.17e-12 7.75e-13	mean   std     median   mean   std	2.79e+00 2.71e+00 4.54e-01 8.33e-06 8.76e-06 4.58e-06 1.99e+02 2.62e+02 2.23e+02 2.60e+00 3.68e-01 4.90e-06 4.88e-06 2.35e-06 1.55e+02 8.33e+01 2.53e+00 3.75e-01 6.18e-06 8.14e-06 6.32e-06	3.88e-13 3.57e-04 1.95e-03 1.63e-24 1.56e-17 8.56e-17 5.93e+01 2.15e+02 3.38e+02 3.76e-13 1.22e-07 6.66e-07 1.40e-24 1.38e-24 2.53e-25 4.85e+01 1.33e+02 3.77e-13 2.36e-09 1.29e-08 1.81e-24 1.90e-24 6.70e-25	8.90e+03 9.90e-13 1.16e-12 6.79e-13 1.23e-23 2.35e-23 4.34e-23 3.07e+02 2.68e+03 1.01e+04 9.99e-13 7.10e-03 2.84e-02 1.22e-23 2.48e-23 4.79e-23 6.30e+02 1.02e+04 2.84e+04 9.87e-13 9.32e-04 5.10e-03 1.20e-23 2.38e-23 4.53e-23

**Table S2.5.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S5** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

T1-	C4-4-	M-TDE	EM-TO MET	M-T EDA	Table	Ctata	M-TDE	EM-TO MET	MaT EDA
Task T <sub>1</sub>	Stats. median	MaTDE 3.40e+02	EMaTO-MKT 1.03e+02	MaT-EDA 4.58e+01		Stats. median	MaTDE 4.85e-03	EMaTO-MKT 1.30e-05	MaT-EDA 6.49e-04
11	mean	3.25e+02	1.09e+02	4.45e+01		mean	7.72e-03	3.60e-04	1.22e-03
	std	8.04e+01	2.80e+01	8.06e+00		std	6.05e-03	1.80e-03	1.08e-03
T <sub>2</sub>	median	2.93e-03	8.93e-06	7.53e-04		median	1.80e+01	2.22e+01	3.05e+00
	mean	7.12e-03	1.79e-05	1.27e-03		mean	1.75e+01	2.15e+01	3.32e+00
	std	6.59e-03	2.11e-05	1.65e-03		std	1.86e+00	6.50e+00	2.04e+00
T <sub>3</sub>	median	1.52e+01	1.99e+01	2.69e+00	T <sub>28</sub>	median	3.60e+02	1.07e+02	4.23e+01
	mean	1.53e+01	1.98e+01	2.72e+00		mean	3.53e+02	1.08e+02	4.16e+01
	std	1.53e+00	5.79e+00	1.47e+00		std	5.17e+01	2.68e+01	5.30e+00
$T_4$	median	3.56e+02	1.10e+02	4.73e+01	T <sub>29</sub>	median	1.02e-02	8.45e-06	9.54e-04
	mean	3.43e+02	1.08e+02	4.75e+01		mean	1.01e-02	6.23e-05	1.63e-03
	std	6.47e+01	2.31e+01	7.38e+00		std	6.97e-03	1.33e-04	1.67e-03
T <sub>5</sub>	median	2.70e-03	1.11e-05	5.41e-04		median	1.80e+01	2.14e+01	3.39e+00
	mean	5.45e-03	4.65e-04	6.45e-04		mean	1.75e+01	2.14e+01	3.20e+00
T	std	5.43e-03	1.88e-03	3.60e-04		std	1.74e+00	5.68e+00	8.48e-01
T <sub>6</sub>	median	1.46e+01	1.93e+01	2.45e+00		median	3.73e+02	9.57e+01	3.98e+01
	mean std	1.46e+01 1.67e+00	2.02e+01 8.25e+00	2.57e+00		mean std	3.66e+02 5.03e+01	1.02e+02 2.62e+01	3.96e+01 7.76e+00
T <sub>7</sub>	median	3.45e+02	1.04e+02	1.38e+00 4.28e+01		median	3.50e-03	7.82e-06	5.44e-04
17	mean	3.43e+02 3.33e+02	1.04e+02 1.05e+02	4.24e+01		mean	5.89e-03	2.83e-04	5.89e-04
	std	7.10e+01	2.40e+01	9.23e+00		std	5.89e-03	1.35e-03	4.09e-04
T <sub>8</sub>	median	9.50e-03	2.14e-05	8.56e-04		median	1.67e+01	2.03e+01	3.01e+00
- 8	mean	1.01e-02	7.37e-04	8.99e-04		mean	1.66e+01	2.04e+01	2.88e+00
	std	6.60e-03	2.57e-03	6.20e-04		std	1.82e+00	5.91e+00	1.49e+00
T <sub>9</sub>	median	1.65e+01	2.21e+01	2.33e+00		median	3.25e+02	9.60e+01	4.23e+01
	mean	1.64e+01	2.21e+01	3.06e+00		mean	3.14e+02	9.96e+01	4.32e+01
	std	1.77e+00	5.51e+00	1.76e+00		std	7.21e+01	1.64e+01	6.60e+00
T <sub>10</sub>	median	3.80e+02	9.25e+01	4.03e+01		median	2.54e-03	5.27e-06	8.13e-04
	mean	3.74e+02	1.01e+02	4.07e+01		mean	5.62e-03	2.88e-04	9.96e-04
	std	4.87e+01	3.12e+01	9.03e+00		std	5.59e-03	1.41e-03	7.89e-04
$T_{11}$	median	3.45e-03	1.34e-05	7.56e-04		median	1.50e+01	1.91e+01	1.89e+00
	mean	5.89e-03	3.14e-05	2.05e-03		mean	1.51e+01	1.87e+01	2.20e+00
т	std	5.84e-03	4.96e-05	3.80e-03		std	2.17e+00	6.37e+00	1.14e+00
T <sub>12</sub>	median	1.59e+01	2.05e+01	2.34e+00		median	3.42e+02 3.29e+02	9.60e+01	4.13e+01
	mean std	1.59e+01 1.74e+00	2.05e+01 5.88e+00	2.58e+00 1.56e+00		mean std	6.85e+01	1.04e+02 3.25e+01	3.92e+01 9.59e+00
T <sub>13</sub>	median	3.57e+02	1.03e+02	4.13e+01		median	2.73e-03	1.29e-05	5.61e-04
1 13	mean	3.61e+02	1.03e+02 1.02e+02	4.14e+01		mean	3.82e-03	2.59e-05	1.54e-03
	std	2.97e+01	2.69e+01	7.71e+00		std	3.54e-03	2.97e-05	2.63e-03
T <sub>14</sub>	median	2.76e-03	1.25e-05	1.23e-03		median	1.73e+01	2.25e+01	3.00e+00
- 14	mean	5.87e-03	2.42e-05	1.59e-03		mean	1.76e+01	2.24e+01	2.96e+00
	std	8.08e-03	3.17e-05	1.13e-03		std	1.68e+00	6.99e+00	1.36e+00
T <sub>15</sub>	median	1.56e+01	2.22e+01	1.98e+00	T <sub>40</sub>	median	3.58e+02	1.03e+02	3.88e+01
	mean	1.61e+01	2.20e+01	2.64e+00		mean	3.48e+02	1.02e+02	4.04e+01
	std	2.10e+00	6.46e+00	1.62e+00		std	4.85e+01	2.24e+01	6.92e+00
$T_{16}$	median	3.61e+02	1.14e+02	4.08e+01	T <sub>41</sub>	median	2.52e-03	8.12e-06	5.38e-04
	mean	3.60e+02	1.10e+02	4.03e+01		mean	7.45e-03	3.90e-04	1.85e-03
	std	4.57e+01	2.29e+01	7.68e+00		std	8.38e-03	1.83e-03	3.11e-03
T <sub>17</sub>	median	4.04e-03	9.10e-06	9.04e-04		median	1.50e+01	2.19e+01	1.91e+00
	mean	7.30e-03	2.69e-04	1.27e-03		mean	1.50e+01	2.18e+01	2.06e+00
т	std	6.91e-03	1.35e-03	1.12e-03		std madian	1.75e+00	6.63e+00	1.47e+00
T <sub>18</sub>	median mean	1.60e+01 1.60e+01	2.32e+01 2.13e+01	2.13e+00 2.13e+00		median mean	3.37e+02 3.21e+02	1.09e+02 1.09e+02	4.28e+01 4.27e+01
	std	1.51e+00	5.12e+00	1.20e+00		mean std	7.80e+01	2.48e+01	1.11e+01
T <sub>19</sub>	median	3.43e+02	1.02e+02	4.13e+01		median	9.01e-03	8.45e-06	8.60e-04
± 19	mean	3.43e+02 3.23e+02	1.00e+02	4.16e+01		mean	1.02e-02	3.31e-05	1.18e-03
	std	6.08e+01	2.55e+01	6.89e+00		std	9.41e-03	9.23e-05	9.53e-04
T <sub>20</sub>	median	5.31e-03	1.60e-05	7.27e-04		median	1.65e+01	2.02e+01	3.08e+00
20	mean	8.24e-03	6.14e-04	1.10e-03		mean	1.63e+01	2.08e+01	2.97e+00
	std	7.45e-03	3.14e-03	9.31e-04		std	1.93e+00	5.66e+00	1.20e+00
T <sub>21</sub>	median	1.56e+01	2.24e+01	2.00e+00	T <sub>46</sub>	median	3.52e+02	1.10e+02	4.08e+01
	mean	1.59e+01	2.28e+01	2.31e+00		mean	3.35e+02	1.11e+02	4.23e+01
	std	2.10e+00	5.38e+00	1.05e+00		std	6.96e+01	2.28e+01	6.15e+00
T <sub>22</sub>	median	3.61e+02	1.05e+02	4.08e+01		median	1.05e-02	1.07e-05	1.48e-03
	mean	3.49e+02	1.07e+02	4.27e+01		mean	1.19e-02	2.82e-05	1.78e-03
	std	6.16e+01	2.84e+01	8.44e+00		std	8.95e-03	4.18e-05	1.35e-03
T <sub>23</sub>	median	2.18e-03	1.86e-05	5.16e-04		median	1.56e+01	2.21e+01	2.77e+00
	mean	5.10e-03	4.46e-04	9.33e-04		mean	1.59e+01	2.19e+01	2.58e+00
т.	std	6.47e-03	2.25e-03	8.14e-04		std	1.33e+00	5.37e+00	1.13e+00
T <sub>24</sub>	median	1.71e+01	2.19e+01	2.84e+00		median	3.65e+02	1.02e+02	4.48e+01
	mean	1.71e+01	2.05e+01	3.29e+00		mean	3.52e+02	1.02e+02	4.42e+01
т	std	1.26e+00	5.42e+00	2.02e+00		std median	5.96e+01	2.22e+01	1.01e+01
T <sub>25</sub>	median	3.48e+02 3.45e+02	9.55e+01 1.02e+02	4.18e+01 4.28e+01	20	median mean	1.55e-03 3.62e-03	1.69e-05 4.12e-04	7.78e-04 9.32e-04
}	mean std	6.11e+01	2.85e+01	9.35e+00		mean std	3.97e-03	1.80e-03	7.38e-04
	oru	0.116+01	2.03€±01	7.336700	ı	ou	3.776-03	1.006-03	7.300-04

**Table S2.6.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S6** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

	la			oest optimiz			1.6 mm m		1.000
Task	Stats.	MaTDE	EMaTO-MKT	MaT-EDA		Stats.	MaTDE	EMaTO-MKT	MaT-EDA
$T_1$	median	1.13e+02	4.83e+01	2.56e+02		median	3.18e-03	2.14e-05	4.80e-05
	mean	2.22e+02	3.48e+02	1.30e+03		mean	6.73e-03	2.97e-04	3.74e-04
	std	2.50e+02	1.01e+03	2.96e+03		std	6.38e-03	1.41e-03	7.63e-04
T <sub>2</sub>	median	4.00e-03	2.47e-05	8.48e-05		median	1.37e+04	7.09e+03	1.10e+04
	mean	7.03e-03	6.89e-05	5.21e-04		mean	1.37e+04	7.06e+03	1.09e+04
	std	6.17e-03	1.12e-04	1.61e-03		std	4.97e+02	1.07e+03	8.71e+02
T <sub>3</sub>	median	1.40e+04	7.28e+03	1.09e+04		median	1.56e+02	4.91e+01	2.71e+02
	mean	1.40e+04	7.18e+03	1.08e+04		mean	1.65e+02	1.98e+02	2.81e+03
	std	4.27e+02	9.49e+02	1.12e+03		std	7.29e+01	2.54e+02	8.89e+03
$T_4$	median	1.60e+02	4.88e+01	1.45e+02		median	1.01e-02	1.46e-05	8.55e-05
	mean	2.08e+02	3.37e+02	5.38e+03		mean	1.01e-02	3.37e-05	3.94e-04
	std	2.15e+02	7.59e+02	1.59e+04		std	9.83e-03	4.03e-05	7.36e-04
$T_5$	median	2.55e-03	1.51e-05	1.08e-04		median	1.39e+04	7.03e+03	1.09e+04
	mean	5.24e-03	6.62e-05	2.26e-04		mean	1.39e+04	7.20e+03	1.09e+04
	std	5.80e-03	1.13e-04	2.91e-04		std	5.91e+02	1.02e+03	6.71e+02
T <sub>6</sub>	median	1.39e+04	6.94e+03	1.10e+04	T <sub>31</sub>	median	3.93e+02	1.25e+02	2.46e+02
	mean	1.39e+04	7.14e+03	1.11e+04		mean	4.16e+02	4.56e+02	4.05e+03
	std	4.90e+02	9.55e+02	1.01e+03		std	2.36e+02	1.20e+03	1.21e+04
$T_7$	median	1.02e+02	4.85e+01	2.22e+02	$T_{32}$	median	1.22e-02	1.14e-05	9.26e-05
	mean	1.26e+02	1.55e+02	5.63e+03		mean	1.29e-02	3.26e-05	2.99e-04
	std	9.54e+01	2.92e+02	1.25e+04		std	7.78e-03	5.58e-05	5.18e-04
T <sub>8</sub>	median	2.21e-03	3.21e-05	1.05e-04	T <sub>33</sub>	median	1.38e+04	7.05e+03	1.11e+04
	mean	3.78e-03	5.31e-05	2.35e-04		mean	1.36e+04	7.18e+03	1.10e+04
	std	3.68e-03	6.97e-05	3.83e-04		std	5.80e+02	1.01e+03	9.58e+02
T <sub>9</sub>	median	1.40e+04	7.58e+03	1.12e+04	T <sub>34</sub>	median	9.92e+01	4.90e+01	4.43e+02
	mean	1.40e+04	7.38e+03	1.12e+04		mean	1.21e+02	1.89e+02	6.10e+03
	std	4.10e+02	9.40e+02	8.16e+02		std	7.26e+01	3.98e+02	1.52e+04
T <sub>10</sub>	median	2.64e+02	1.33e+02	1.34e+02	T <sub>35</sub>	median	2.95e-03	4.09e-05	1.99e-04
	mean	5.18e+02	3.05e+02	4.67e+02		mean	8.27e-03	3.55e-04	4.47e-04
	std	5.23e+02	3.41e+02	7.94e+02		std	8.55e-03	1.36e-03	6.04e-04
T <sub>11</sub>	median	7.88e-03	2.36e-05	6.78e-05	T <sub>36</sub>	median	1.39e+04	7.40e+03	1.13e+04
	mean	7.73e-03	3.24e-04	1.71e-04		mean	1.40e+04	7.41e+03	1.11e+04
	std	5.77e-03	1.36e-03	2.53e-04		std	3.70e+02	8.87e+02	1.04e+03
T <sub>12</sub>	median	1.41e+04	7.34e+03	1.10e+04	T <sub>37</sub>	median	1.64e+02	4.90e+01	1.38e+02
12	mean	1.41e+04	7.34e+03	1.11e+04		mean	1.76e+02	2.28e+02	4.96e+03
	std	3.35e+02	8.80e+02	9.01e+02		std	8.38e+01	4.21e+02	1.83e+04
T <sub>13</sub>	median	6.89e+01	4.91e+01	4.48e+02	T <sub>38</sub>	median	3.20e-03	1.85e-05	1.64e-04
	mean	8.02e+01	1.87e+02	1.04e+04		mean	6.83e-03	9.42e-04	3.93e-04
	std	3.47e+01	3.38e+02	1.82e+04		std	8.39e-03	3.58e-03	8.87e-04
T <sub>14</sub>	median	2.86e-03	2.37e-05	1.81e-04	T <sub>39</sub>	median	1.41e+04	7.39e+03	1.09e+04
	mean	6.90e-03	9.03e-05	7.02e-04		mean	1.40e+04	7.38e+03	1.11e+04
	std	8.49e-03	1.44e-04	1.84e-03		std	3.57e+02	1.13e+03	9.23e+02
T <sub>15</sub>	median	1.41e+04	7.13e+03	1.09e+04	T <sub>40</sub>	median	7.98e+02	8.37e+01	2.22e+02
- 15	mean	1.41e+04	7.24e+03	1.09e+04		mean	7.87e+02	5.01e+02	1.10e+03
	std	4.35e+02	8.30e+02	8.22e+02		std	4.94e+02	9.43e+02	2.72e+03
T <sub>16</sub>	median	4.81e+02	4.92e+01	2.53e+02	T <sub>41</sub>	median	4.62e-03	7.57e-06	1.23e-04
- 10	mean	5.94e+02	4.45e+02	1.19e+03		mean	8.72e-03	9.26e-05	2.96e-04
	std	4.58e+02	1.09e+03	2.86e+03		std	7.43e-03	2.18e-04	4.47e-04
T <sub>17</sub>	median	1.08e-02	2.04e-05	1.99e-04		median	1.38e+04	7.68e+03	1.14e+04
-1/	mean	1.02e-02	8.68e-05	7.65e-04		mean	1.38e+04	7.52e+03	1.13e+04
	std	7.58e-03	2.78e-04	2.09e-03		std	4.37e+02	9.06e+02	8.67e+02
T <sub>18</sub>	median	1.42e+04	7.45e+03	1.14e+04		median	7.73e+02	7.35e+01	3.66e+02
- 10	mean	1.41e+04	7.57e+03	1.14e+04		mean	8.69e+02	3.96e+02	2.28e+03
	std	3.18e+02	8.91e+02	8.14e+02	1	std	6.45e+02	7.02e+02	6.15e+03
T <sub>19</sub>	median	1.84e+02	4.88e+01	2.24e+02	T <sub>44</sub>	median	3.17e-03	1.48e-05	1.74e-04
- 19	mean	1.86e+02	2.28e+02	6.58e+03		mean	7.35e-03	2.56e-05	4.93e-04
	std	9.55e+01	8.44e+02	1.46e+04	1	std	7.50e-03	3.25e-05	8.48e-04
T <sub>20</sub>	median	3.51e-03	1.67e-05	1.92e-04	T <sub>45</sub>	median	1.39e+04	7.15e+03	1.10e+04
- 20	mean	6.43e-03	8.99e-05	2.38e-04		mean	1.38e+04	7.33e+03	1.10e+04
	std	5.63e-03	2.75e-04	2.52e-04		std	4.09e+02	7.04e+02	1.15e+03
T <sub>21</sub>	median	1.41e+04	7.18e+03	1.14e+04		median	2.00e+03	6.35e+02	4.88e+02
- 21	mean	1.40e+04	7.29e+03	1.14e+04		mean	1.98e+03	1.45e+03	1.51e+03
<del></del>	std	4.23e+02	7.09e+02	8.44e+02	†	std	7.45e+02	1.64e+03	2.53e+03
T <sub>22</sub>	median	6.68e+02	1.36e+02	4.49e+02	T <sub>47</sub>	median	5.94e-03	1.83e-05	1.15e-04
<b>1</b> 22	mean	7.06e+02	8.04e+02	9.52e+02		mean	8.27e-03	4.18e-05	3.50e-04
	std	4.24e+02	1.80e+03	1.15e+03		std	6.98e-03	5.39e-05	5.38e-04
T <sub>23</sub>	median	1.13e-02	1.14e-05	1.11e-04		median	1.42e+04	7.45e+03	1.13e+04
1 23	mean	9.99e-03	5.82e-05	2.17e-04		mean	1.42e+04 1.40e+04	7.45e+03 7.47e+03	1.13e+04 1.14e+04
<b></b>	std	6.85e-03	1.47e-04		1	mean std	5.24e+02	8.33e+02	8.79e+02
		1.41e+04	7.24e+03	4.08e-04 1.10e+04	т.	sta median	3.24e+02 1.85e+02	8.53e+02 4.90e+01	8.79e+02 1.43e+02
т		1.416+04	7.24e±03			median mean		4.90e+01 2.77e+02	1.43e+02 1.68e+03
T <sub>24</sub>	median	1 41 = + 0.4	7 17. 102			noean			1 DXC+03
T <sub>24</sub>	mean	1.41e+04	7.17e+03	1.11e+04			2.81e+02		
	mean std	3.91e+02	1.03e+03	9.15e+02		std	3.06e+02	7.24e+02	6.18e+03
T <sub>24</sub>	mean std median	3.91e+02 2.07e+02	1.03e+03 4.91e+01	9.15e+02 1.36e+02	T <sub>50</sub>	std median	3.06e+02 2.05e-03	7.24e+02 1.23e-05	<b>6.18e+03</b> 1.14e-04
	mean std	3.91e+02	1.03e+03	9.15e+02	T <sub>50</sub>	std	3.06e+02	7.24e+02	6.18e+03

**Table S2.7.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S7** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

Task States										
Decomposition   Decompositio	Task	Stats.	MaTDE	EMaTO-MKT	MaT-EDA			MaTDE	EMaTO-MKT	MaT-EDA
Section   Sect	$T_1$	median				$T_{26}$	median			
T <sub>2</sub>   median   3.32-002   9.90e-01   4.38e-01   T <sub>2</sub>   median   1.53e-01   1.34e-01   2.76e-00   mean   3.31e-02   1.08e-00   1.					3.23e-12			3.43e+02		
mean   3,21c02   1,03c02   4,53c40   mean   1,51c10   2,10c10   2,65c40   sld   6,64c10   2,31c10   2,31c10   2,75c40   Tu median   1,64c10   1,24c10   2,25c40   Tu median   2,31c10   1,10c10										
Section   Sect	$T_2$					T <sub>27</sub>				
Tamelian		mean	3.21e+02	1.03e+02	4.52e+01		mean	1.51e+01	2.10e+01	2.65e+00
mean		std	6.44e+01	2.31e+01	7.57e+00		std		6.81e+00	
self	$T_3$	median				$T_{28}$	median			
Tamelain		mean					mean	2.72e+00	1.41e-05	
mean   2,74e-00   2,46e-04   3,19e-12   mean   3,44e-02   1,02e-102   4,37e-01   1,15e-03   3,45e-01   1,35e-03   1,65e-12   3d   5,73e-01   2,33e-101   2,33e-101   2,33e-101   2,33e-101   2,33e-101   2,32e-101   1,56e-301   1,56e-301   2,11e-01   2,11e-01   2,16e-001   1,56e-101   1,56e-101   1,56e-101   2,11e-01   2,16e-001   1,56e-101		std	2.33e+00	5.26e+00	1.52e+00				7.73e-05	1.61e-12
Std   3.45-01   1.35-03   1.65-12   std   5.73-101   2.33-101   7.86-101   1.50-101   1.50-101   2.33-101   2.33-101   1.50-101	$T_4$	median	2.74e+00	1.32e-13	4.35e-12	T <sub>29</sub>	median		9.70e+01	4.33e+01
Tamelan   3.57e+02   9.20e+01   3.90e+01   Tamelan   1.61e+01   2.32e+01   2.92e+01   3.06e+00   std   4.41e+01   2.36e+01   8.76e+00   std   1.00e+00   5.22e+00   1.58e+00   std   4.41e+01   2.36e+01   2.76e+00   Tamelan   2.77e+00   5.20e+00   1.58e+10   mean   1.53e+01   2.06e+01   3.13e+00   mean   2.77e+00   3.46e+03   3.16e+12   std   1.82e+00   6.32e+00   1.73e+00   std   3.97e+01   3.46e+03   3.16e+12   std   3.97e+01   3.86e+03   3.16e+12   3.97e+01   3.86e+03   3.16e+12   3.97e+01   3.86e+03   3.97e+01   3.86e+03   3.97e+01   3.86e+03   3.97e+01   3.86e+03   3.86e+02   3.86e+03   3.86e+		mean	2.74e+00	2.46e-04	3.19e-12		mean		1.02e+02	4.37e+01
mean   3,57e-02   9,29e-01   4,37e-01   mean   1,61e-01   2,32e-10   3,08e-00   tdd   4,41e-01   2,36e-01   2,26e-00   tdd   1,66e-00   5,22e-01   1,58e-10   mean   1,59e-01   2,06e-01   3,13e-10   mean   2,74e-00   3,44e-03   3,16e-12   mean   2,60e-00   1,29e-13   4,39e-13   Ty median   3,46e-02   1,12e-02   4,17e-12   1,12e-00   1,29e-13   4,39e-13   Ty median   3,46e-02   1,12e-02   4,17e-12   1,12e-00   1,29e-13   4,39e-13   Ty median   3,46e-02   1,12e-02   4,17e-12   1,12e-03   1,1		std	3.45e-01	1.35e-03	1.65e-12			5.73e+01	2.33e+01	7.86e+00
mean   3,57e-02   9,29e-01   4,37e-01   mean   1,61e-01   2,32e-10   3,08e-00   tdd   4,41e-01   2,36e-01   2,26e-00   tdd   1,66e-00   5,22e-01   1,58e-10   mean   1,59e-01   2,06e-01   3,13e-10   mean   2,74e-00   3,44e-03   3,16e-12   mean   2,60e-00   1,29e-13   4,39e-13   Ty median   3,46e-02   1,12e-02   4,17e-12   1,12e-00   1,29e-13   4,39e-13   Ty median   3,46e-02   1,12e-02   4,17e-12   1,12e-00   1,29e-13   4,39e-13   Ty median   3,46e-02   1,12e-02   4,17e-12   1,12e-03   1,1	$T_5$	median	3.57e+02	9.20e+01	3.90e+01	T <sub>30</sub>	median	1.59e+01	2.32e+01	
Teneral   1.56e+01   2.10e+01   2.26e+00   Teneral   2.77e+00   3.44e-01   3.45e+01		mean	3.57e+02	9.29e+01	4.07e+01		mean	1.61e+01		3.08e+00
mean		std	4.41e+01	2.36e+01	8.76e+00		std	1.06e+00	5.22e+00	1.58e+00
mean	$T_6$	median	1.56e+01	2.11e+01	2.76e+00	T <sub>31</sub>	median	2.77e+00	1.36e-13	4.26e-12
Ty   median   2.50e+00   1.29e+13   4.39e+12   Ty   median   3.46e+02   1.12e+02   4.17e+01   8d   4.66e+01   1.40e+11   1.66e+12   8d   5.45e+01   2.81e+01   2.81		mean	1.53e+01	2.06e+01	3.13e+00		mean	2.74e+00	3.44e-03	3.16e-12
Ty   median   2.50e+00   1.29e+13   4.39e+12   Ty   median   3.46e+02   1.12e+02   4.17e+01   8d   4.66e+01   1.40e+11   1.66e+12   8d   5.45e+01   2.81e+01   2.81			1.82e+00							
mean   2.59+00   2.70-12   3.21-12   mean   3.38+02   1.12-02   4.17-40   1.46-11   1.65-12   std   5.45+011   2.18+01   9.95+60   mean   3.38+02   9.99+01   4.33+01   mean   1.59+01   2.12+01   2.21+00   std   6.43+01   2.43+01   2.95+00   std   1.69+00   1.15-13   4.22-12   mean   1.57+01   2.10+01   2.19+00   std   1.69+00   1.15-13   4.22-12   mean   1.57+01   2.10+01   2.19+00   mean   1.57+01   2.10+01   2.19+00   mean   1.55+00   2.10+01   2.19+00   mean   2.56+00   1.15-13   4.22-12   mean   1.61+01   2.17+01   2.90+00   mean   2.56+00   1.20-06   3.16-12   3.16-12   3.16-12   3.16-13   3.16-12   3.16-13   3.16-12   3.16-13   3.	T <sub>7</sub>	median		1.29e-13	4.39e-12	T <sub>32</sub>	median	3.46e+02		4.17e+01
std		mean					mean			
Type   Median   3.38c+02   9.95c+01   4.33c+01   Type   mean   1.5c+01   2.1c+01   2.2c+00   std   6.43c+01   2.43c+01   2.2sc+00   std   1.69c+00   1.5c+00   1.5c+										
Marco	T <sub>8</sub>					T33				
State						- 55				
Type   Median   1.57e+01   2.10e+01   2.38e+00   Type   Median   2.55e+00   1.12e-06   3.16e-12   std   1.63e+00   2.35e+00   1.32e-13   4.37e-12   Type   Median   2.55e+00   1.32e-13   4.37e-12   Type   Median   3.33e-02   2.38e+00   3.37e+01   3.37e										
mean	T <sub>9</sub>					T <sub>34</sub>				
Std						J-			1.20e-06	
Tign   median   2.58c+00   2.00c-13   3.21c-12   mean   3.37c+02   9.85c+01   3.74c+01   std   4.79c-01   3.67c-13   1.66c-12   std   5.41c+01   2.49c+01   9.29c+00   1.71   median   3.64c+02   1.04c+02   4.14c+01   1.56c-01   1.62c+01   2.21c+01   2.29c+00   1.06c-02   1.03c+02   4.27c+01   mean   1.62c+01   2.21c+01   3.12c+00   std   9.18c+01   2.23c+01   9.10c+02   4.27c+01   mean   1.62c+01   2.21c+01   3.12c+00   std   9.18c+01   2.23c+01   9.10c+00   3.12c+00   std   1.76c+00   4.28c+00   1.29c+01   3.12c+00   mean   1.62c+01   2.21c+01   3.12c+00   mean   1.61c+01   2.09c+01   3.12c+00   mean   2.53c+00   5.47c+13   3.20c-12   std   2.11c+00   4.66c+00   1.38c+00   mean   2.53c+00   5.47c+13   3.20c-12   std   2.11c+00   4.66c+00   1.38c+00   mean   3.74c+02   9.75c+01   4.28c+01   mean   2.60c+00   1.18c-13   4.29c+12   Tign   median   3.00c+02   1.04c+02   4.58c+01   mean   3.00c+02   1.04c+02   4.58c+01   mean   3.00c+02   1.04c+02   4.58c+01   mean   3.35c+02   1.03c+02   4.46c+01   mean   3.35c+02   1.03c+02   4.46c+01   mean   3.35c+02   1.03c+02   4.46c+01   mean   3.35c+02   1.03c+02   4.46c+01   mean   1.62c+01   2.05c+01   2.03c+00   std   5.62c+01   2.05c+01   3.30c+00   std   5.03c+01   3.39c+02   3.32c+01   3.39c+02   3.39									6.58e-06	
Mean   2.54e+00   3.07e+13   3.21e+12   mean   3.37e+02   1.03e+02   4.14e+01   std   4.79e+01   3.07e+13   1.06e+12   std   5.41e+01   2.21e+01   2.29e+00   mean   3.32e+02   1.04e+02   4.13e+01   T <sub>35</sub>   median   1.62e+01   2.21e+01   3.28e+00   mean   3.32e+02   1.03e+02   4.17e+01   mean   1.62e+01   2.21e+01   3.12e+00   std   1.76e+00   4.98e+00   1.59e+00   T <sub>37</sub>   median   1.64e+01   2.98e+01   2.73e+01   9.91e+00   std   1.76e+00   4.98e+00   1.59e+00   1.59e+00   T <sub>37</sub>   median   1.64e+01   2.99e+01   3.12e+00   mean   2.53e+00   5.47e+13   3.20e+12   std   2.11e+00   4.66e+00   1.58e+00   mean   2.53e+00   5.47e+13   3.20e+12   std   2.11e+00   4.66e+00   1.58e+00   mean   2.53e+00   5.47e+13   3.20e+12   std   3.27e-01   2.28e-12   T <sub>38</sub>   median   3.74e+02   9.75e+01   4.28e+01   mean   2.60e+00   1.26e+13   3.17e+12   mean   3.60e+02   1.04e+02   4.39e+01   std   3.27e-01   2.28e-14   1.61e+12   std   3.27e-01   2.28e-10   4.28e+01   mean   3.36e+02   0.94e+01   4.08e+01   T <sub>39</sub>   median   1.64e+01   1.99e+01   1.99e+00   mean   3.35e+02   1.09e+02   4.40e+01   mean   1.62e+01   1.99e+01   1.99e+00   std   3.62e+00   4.87e+00   1.13e+00   std   3.62e+01   2.67e+01   3.85e+00   std   1.84e+00   4.87e+00   4.16e+01   1.99e+01   1.16e+01   1.1	T10					T25				
Sid   4,79c-01   3,67c-13   1,66c-12   std   5,41c-01   2,49c-01   2,28c-00   1,28c-00   1,19c-02   4,18c-01   1,19c	10					- 55				
Timedian   3.64e+02   1.04e+02   4.13e+01   Timedian   1.62e+01   2.21e+01   3.12e+00										
mean   3,32e+02   1,03e+02   2,27e+01   mean   1,62e+01   2,21e+01   3,12e+00   1,59e+00   1,59e+10   1,59e+	T11					T <sub>26</sub>				
Std	- 11					230				
Tign										
mean	Tıa					T27				
Sid   2.11e+00   4.66e+00   1.8e+00   std   4.56e-01   2.25e+12   1.64e-12   T <sub>18</sub>   median   2.60e+00   1.18e-13   3.17e-12   mean   3.60e+02   1.04e+02   4.28e+01   std   3.27e+01   2.80e+14   1.61e+12   std   5.23e+01   2.43e+01   7.65e+00   T <sub>14</sub>   median   3.40e+02   4.96e+01   4.88e+01   T <sub>19</sub>   median   3.40e+02   4.28e+01   7.65e+00   mean   3.35e+02   1.03e+02   4.04e+01   mean   1.62e+01   2.05e+00   2.03e+00   std   5.52e+01   2.67e+01   3.70e+00   std   5.52e+01   2.67e+01   3.70e+00   std   5.50e+00   4.87e+00   4.87e+00   1.13e+00   4.87e+00   1.13e+00   4.87e+00   4.87e+	* 12					13/				
$ \begin{array}{c} T_{13} & \text{mediam} & 2.00 \pm 00 \\ \text{mean} & 2.60 \pm 00 \\ \text{std} & 3.27 \pm 01 \\ \text{mean} & 3.40 \pm 02 \\ \text{std} & 3.27 \pm 01 \\ \text{std} & 3.27 \pm 01 \\ \text{mean} & 3.36 \pm 02 \\ \text{std} & 3.27 \pm 01 \\ \text{std} & 3.27 \pm 01 \\ \text{mean} & 3.36 \pm 02 \\ \text{std} & 5.23 \pm 01 \\ \text{std} & 5.20 \pm 01 \\ \text{std} & 5.20 \pm 01 \\ \text{std} & 5.62 \pm 01 \\ \text{std} & 5.62 \pm 01 \\ \text{std} & 5.62 \pm 01 \\ \text{std} & 2.05 \pm 00 \\ \text{std} & 1.88 \pm 00 \\ \text{std} & 1.84 \pm 00 \\ \text{std} & 1.84 \pm 00 \\ \text{std} & 2.05 \pm 01 \\ \text{std} & 2.05 \pm 00 \\ \text{std} & 2.05 \pm 00 \\ \text{std} & 4.05 \pm 01 \\ \text{std} & 2.05 \pm 00 \\ \text{std} & 4.05 \pm 01 \\ \text{std} & 5.56 \pm 01 \\ \text{std} & 4.05 \pm 01 \\ \text{std} & 5.56 \pm 01 \\ \text{std} & 1.16 \pm 02 \\ \text{std} & 1.18 \pm 02 \\ \text{std} & 1.16 \pm 01 \\ \text{std} & 1.25 \pm 01 \\ \text{std} & 1.16 \pm 01 \\ \text{std} & 1.25 \pm 01 \\ \text{std} & 1.25 \pm 01 \\ \text{std}$										
mean	T12					T20				
Std   3.27e-01   2.80e-14   1.61e-12   std   5.23e+01   2.43e+01   7.65e+00   mean   3.40e+02   9.46e+01   4.08e+01   T <sub>10</sub>   median   1.64e+01   1.99e+01   1.93e+00   std   5.62e+01   2.67e+01   8.35e+00   std   1.84e+00   4.87e+00   1.13e+00   std   5.62e+01   2.67e+01   8.35e+00   std   1.84e+00   4.87e+00   1.13e+00   std   1.84e+00   4.87e+00   1.13e+01   3.70e+00   T <sub>10</sub>   median   1.65e+01   2.05e+01   3.70e+00   T <sub>10</sub>   median   2.52e+00   1.31e-13   4.31e-12   median   1.71e+01   2.32e+01   3.65e+00   std   5.03e+01   7.3e+13   3.21e-12   std   2.05e+00   1.23e-13   4.10e-12   T <sub>11</sub>   median   2.72e+00   1.23e-13   4.10e-12   T <sub>12</sub>   median   3.59e+02   9.20e+01   4.58e+01   mean   2.67e+00   1.40e-13   3.13e-12   mean   3.49e+02   1.01e+02   4.54e+01   std   4.63e-01   5.10e-14   1.59e-12   std   7.00e+01   3.23e+01   8.31e+00   mean   3.32e+02   1.16e+02   4.38e+01   T <sub>42</sub>   median   1.73e+01   2.19e+01   2.42e+00   mean   3.32e+02   1.18e+02   4.43e+01   mean   1.73e+01   2.11e+01   2.62e+00   std   5.56e+01   2.67e+01   9.50e+00   std   1.58e+00   6.35e+00   1.18e+00   std   5.56e+01   2.25e+01   2.25e+01   2.25e+00   3.31e-12   std   1.17e+00   6.58e+00   1.85e+00   std   3.97e-01   1.31e-13   4.10e-12   std   1.17e+00   6.58e+00   1.85e+00   std   3.97e-01   1.35e-10   1.58e-12   std   1.17e+00   6.58e+00   1.85e+00   std   3.97e-01   1.35e-10   1.58e-12   std   1.17e+00   6.58e+00   1.85e+00   std   3.97e-01   1.35e-10   1.58e-12   std   1.17e+00   6.58e+00   1.89e+10   std   1.17e+01   2.71e+01   7.58e+00   1.20e+01   3.39e+01   3.38e+02   1.05e+02   4.04e+01   mean   2.78e+00   1.20e+01   3.39e+01   1.25e+01   2.71e+01   7.58e+00   1.20e+01   3.39e+01   1.25e+01   2.27e+00   1.20e+01   3.39e+01   1.20e+02   4.36e+01   mean   3.45e+02   1.05e+02   4.36e+01   mean   3.56e+02   1.05e+02   4.36e+01   mean   3.56e+00   1.29e-13   4.29e-12   std   1.56e+00   5.70e+00   1.71e+00   std   4.58e+00   1.30e+13   3.20e-12   std   4.58e+00   1.30e+13   3.32e-12   std   4.58e+00   1.30e+13   3.32e-12   st	113					130				
T <sub>14</sub>   median   3.40e+02   9.46e+01   4.08e+01   T <sub>39</sub>   median   1.64e+01   1.99e+01   1.93e+00   mean   3.35e+02   1.03e+02   4.04e+01   mean   1.62e+01   2.05e+01   2.05e+01   2.03e+00   std   5.62e+01   2.67e+01   8.35e+00   std   1.84e+00   4.87e+00   1.13e+00   mean   1.71e+01   2.32e+01   3.70e+00   T <sub>30</sub>   median   2.55e+00   1.31e+13   4.31e+12   mean   1.71e+01   2.32e+01   3.65e+00   mean   2.25e+00   1.73e+13   3.21e+12   std   2.05e+00   6.08e+00   1.49e+00   std   5.03e+01   9.94e+14   1.66e+12   mean   2.67e+00   1.23e+13   4.10e+12   T <sub>41</sub>   median   3.59e+02   9.20e+01   4.58e+01   mean   2.67e+00   1.40e+13   3.31e+12   mean   3.49e+02   1.01e+02   4.58e+01   std   4.63e+01   5.10e+14   1.59e+12   std   7.00e+01   3.23e+01   8.31e+00   std   4.63e+01   1.66e+12   std   7.00e+01   3.23e+01   8.31e+00   std   5.56e+01   2.67e+01   9.50e+00   std   5.56e+01   2.67e+01   9.50e+00   std   5.56e+01   2.67e+01   9.50e+00   std   5.56e+01   2.67e+01   9.50e+00   std   1.85e+00   6.35e+00   1.18e+00   std   5.56e+01   2.26e+01   2.25e+00   std   1.50e+01   2.25e+01   2.66e+00   mean   1.73e+01   2.11e+01   2.62e+00   std   1.50e+01   2.25e+01   2.56e+00   std   1.85e+00   6.35e+00   1.31e+13   4.10e+12   std   1.17e+00   6.58e+00   1.85e+00   std   3.79e+01   1.35e+10   1.35e+10   1.58e+12   std   4.11e+01   6.83e+10   1.29e+13   4.29e+12   T <sub>44</sub>   median   3.85e+02   1.05e+02   4.04e+01   mean   2.70e+00   1.29e+13   4.29e+12   mean   3.54e+02   1.05e+02   4.04e+01   mean   2.70e+00   1.29e+13   4.29e+12   std   4.15e+01   2.27e+00   4.04e+01   3.08e+00   std   4.11e+01   6.83e+01   1.08e+01   std   4.11e+01   6.83e+10   1.08e+01   std   4.15e+01   2.21e+01   2.27e+00   3.08e+00   std   4.58e+00   1.36e+13   3.29e+01   1.08e+01   std   4.58e+00   1.29e+13   4.36e+12   std   4.59e+01   2.12e+01   2.27e+00   2.17e+00   2.17e+0										
mean   3.35e+02   1.03e+01   8.35e+00   std   1.84e+00   4.87e+00   1.13e+00   std   5.62e+01   2.67e+01   3.70e+00   T <sub>10</sub>   median   1.68e+01   2.19e+01   3.70e+00   T <sub>40</sub>   median   2.55e+00   1.31e+13   4.31e+12   mean   1.71e+01   2.32e+01   3.65e+00   mean   2.62e+00   1.73e+13   3.21e+12   std   2.05e+00   6.08e+00   1.49e+00   std   5.03e-01   9.94e+14   1.66e+12   T <sub>16</sub>   median   2.72e+00   1.23e+13   4.10e+12   T <sub>41</sub>   median   3.59e+02   9.20e+01   4.58e+01   mean   2.67e+00   1.40e+13   3.13e+12   mean   3.49e+02   1.01e+02   4.54e+01   std   4.63e-01   5.10e+14   1.59e+12   std   7.00e+01   3.23e+01   8.31e+00   mean   3.32e+02   1.16e+02   4.38e+01   T <sub>42</sub>   median   1.73e+01   2.19e+01   2.42e+00   std   5.56e+01   2.67e+01   9.50e+00   std   1.85e+00   6.35e+00   1.18e+00   std   5.56e+01   2.67e+01   9.50e+00   std   1.85e+00   6.35e+00   1.18e+00   std   1.72e+00   6.38e+01   3.13e+12   std   1.17e+00   6.58e+00   1.25e+00   std   3.97e-01   1.35e+10   3.13e+12   std   1.17e+00   6.58e+00   1.29e+13   4.29e+12   T <sub>44</sub>   median   3.59e+02   1.02e+02   4.04e+01   mean   2.70e+00   1.29e+13   4.29e+12   T <sub>44</sub>   median   3.85e+02   1.02e+02   4.04e+01   mean   2.78e+00   1.50e+13   3.18e+12   mean   3.54e+02   1.02e+02   4.04e+01   mean   2.78e+00   1.29e+13   3.18e+12   mean   3.54e+02   1.02e+02   4.04e+01   std   4.11e-01   6.83e+1   1.04e+12   std   7.25e+01   2.17e+01   7.58e+00   std   8.59e+01   3.29e+01   3.05e+00   std   8.59e+01   3.29e+01   3.05e+00   1.29e+13   4.36e+12   std   7.25e+01   2.17e+01   2.27e+00   mean   3.45e+02   1.10e+02   4.38e+01   mean   1.57e+01   2.09e+01   3.05e+00   std   8.59e+01   3.29e+01   1.08e+01   std   1.69e+00   6.27e+00   1.29e+13   4.36e+12   std   7.25e+01   2.11e+01   2.27e+00   mean   3.45e+02   1.10e+02   4.38e+01   mean   3.59e+00   1.29e+13   4.36e+12   std   7.25e+01   2.11e+01   2.27e+00   mean   3.49e+01   2.31e+01   2.38e+00   mean   3.59e+00   1.29e+13   4.36e+12   mean   3.59e+00   1.29e+13   4.36e+12   mean   3.51e+01   2.69e+10   3.18e	T14					T20				
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Tis   median   1.68e+01   2.19e+01   3.70e+00   Tis   median   2.55e+00   1.31e-13   3.21e-12										
mean   1.71e+01   2.32e+01   3.65e+00   mean   2.62e+00   1.73e-13   3.21e-12     std   2.05e+00   6.08e+00   1.49e+00   std   5.03e-01   9.94e-14   1.66e-12     T <sub>16</sub>   median   2.72e+00   1.23e-13   4.10e-12   T <sub>41</sub>   median   3.59e+02   9.20e+01   4.58e+01     mean   2.67e+00   1.40e-13   3.13e-12   mean   3.49e+02   1.01e+02   4.54e+01     std   4.63e-01   5.10e-14   1.59e-12   std   7.00e+01   3.23e+01   8.31e+00     T <sub>17</sub>   median   3.55e+02   1.16e+02   4.38e+01   T <sub>42</sub>   median   1.73e+01   2.19e+01   2.42e+00     mean   3.32e+02   1.18e+02   4.43e+01   mean   1.73e+01   2.11e+01   2.62e+00     std   5.56e+01   2.67e+01   9.50e+00   std   1.85e+00   6.35e+00   1.18e+00     T <sub>18</sub>   median   1.60e+01   2.16e+01   2.53e+00   T <sub>43</sub>   median   2.60e+00   1.31e-13   4.10e-12     mean   1.65e+01   2.25e+01   2.56e+00   mean   2.53e+00   2.48e-11   3.13e-12     std   1.17e+00   6.58e+00   1.85e+00   std   3.97e-01   1.35e-10   1.58e-12     T <sub>19</sub>   median   2.70e+00   1.29e-13   4.29e-12   T <sub>44</sub>   median   3.85e+02   1.02e+02   4.04e+01     mean   2.78e+00   1.50e-13   3.18e-12   mean   3.54e+02   1.02e+02   4.04e+01     mean   3.70e+02   1.07e+02   4.34e+01   T <sub>45</sub>   median   1.59e+01   2.12e+01   2.27e+00     mean   3.45e+02   1.10e+02   4.53e+01   mean   1.57e+01   2.09e+01   2.27e+00     mean   3.45e+02   1.10e+02   4.53e+01   mean   1.57e+01   2.09e+01   3.05e+00     std   8.59e+01   3.29e+01   1.08e+01   std   1.69e+00   6.27e+00   2.17e+00     mean   1.49e+01   2.31e+01   2.88e+00   mean   2.58e+00   1.29e-13   4.36e-12     median   1.52e+01   2.21e+01   2.88e+00   mean   2.56e+00   1.36e-13   3.20e-12     std   4.19e+01   2.31e+01   2.88e+00   mean   2.56e+00   1.36e-13   3.20e-12     std   4.92e-01   1.95e-14   1.63e-12   std   4.60e+01   2.68e+01   7.19e+00     std	T15					T40				
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mean         2.67e+00         1.40e-13         3.13e-12         mean         3.49e+02         1.01e+02         4.54e+01           td         4.63e-01         5.10e-14         1.59e-12         std         7.00e+01         3.23e+01         8.31e+00           T <sub>17</sub> median         3.55e+02         1.16e+02         4.38e+01         T <sub>42</sub> median         1.73e+01         2.19e+01         2.42e+00           mean         3.32e+02         1.18e+02         4.43e+01         mean         1.73e+01         2.11e+01         2.62e+00           std         5.56e+01         2.67e+01         9.50e+00         std         1.85e+00         6.35e+00         1.18e+00           mean         1.65e+01         2.25e+01         2.66e+00         mean         2.53e+00         2.48e-11         3.13e-12           std         1.17e+00         6.58e+00         1.85e+00         std         3.9r-01         1.35e-10         1.58e-12           T <sub>19</sub> median         2.70e+00         1.59e-13         3.18e-12         mean         3.54e+02         1.02e+02         4.41e+01           std         4.11e-01         6.83e-14         1.64e-12         std         7.25e+01         2.71e+01         7.58e+00	Tu					Т.,				
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mean   3.32e+02   1.18e+02   4.43e+01   mean   1.73e+01   2.11e+01   2.62e+00   std   5.56e+01   2.67e+01   9.50e+00   T43   median   1.60e+01   2.16e+01   2.53e+00   T43   median   2.60e+00   1.31e+13   4.10e+12   mean   1.65e+01   2.25e+01   2.66e+00   mean   2.53e+00   2.48e+11   3.13e+12   std   1.17e+00   6.58e+00   1.85e+00   std   3.97e+01   1.35e+10   1.58e+12   mean   2.70e+00   1.50e+13   3.18e+12   mean   3.54e+02   1.02e+02   4.04e+01   mean   2.78e+00   1.50e+13   3.18e+12   mean   3.54e+02   1.05e+02   4.11e+01   std   4.11e+01   6.83e+14   1.64e+12   std   7.25e+01   2.71e+01   7.58e+00   mean   3.70e+02   1.07e+02   4.34e+01   T45   median   1.59e+01   2.12e+01   2.27e+00   std   8.59e+01   3.29e+01   1.08e+01   std   1.69e+00   6.27e+00   2.17e+00   std   8.59e+01   3.29e+01   1.08e+01   std   1.69e+00   6.27e+00   2.17e+00   2.17e+00   T21   median   1.52e+01   2.21e+01   2.21e+01   2.28e+00   T46   mean   1.49e+01   2.31e+01   2.31e+01   2.88e+00   mean   2.64e+00   1.36e+13   3.20e+12   T22   median   2.84e+00   1.29e+13   4.36e+12   T47   median   3.66e+02   1.01e+02   4.18e+01   mean   2.81e+00   1.33e+13   3.18e+12   mean   3.61e+02   1.02e+02   4.18e+01   T48   median   3.66e+02   1.01e+02   4.18e+01   T48   median   3.66e+02   1.02e+02   4.18e+01   T48   median   3.66e+02   1.01e+02   4.18e+01   T48   median   3.66e+02   1.01e+02   4.18e+01   T48   median   3.66e+02   1.01e+02   4.18e+01   T48   median   3.66e+02   1.02	Т					Т,-				
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mean 2.73e+00 <b>1.23e-13 3.22e-12</b> mean 3.44e+02 1.04e+02 <b>4.26e+01</b>		1				<u> </u>				
	T <sub>25</sub>					$T_{50}$				
std 3.46e-01 <b>2.90e-14 1.68e-12</b> std 5.92e+01 2.00e+01 <b>8.61e+00</b>										
		std	3.46e-01	2.90e-14	1.68e-12		std	5.92e+01	2.00e+01	8.61e+00

**Table S2.8.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S8** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

Table	Ctata	M-TDE	EM-TO MET	MaT EDA	Ta ala k	C4-4-	M-TDE	EM-TO MET	M-T EDA
Task	Stats.	MaTDE	EMaTO-MKT	MaT-EDA		Stats.	MaTDE	EMaTO-MKT	MaT-EDA
$T_1$	median	1.78e+02	4.86e+01	1.46e+02		median	8.13e+02	2.59e+02	2.01e+02
	mean	3.20e+02	5.36e+02	2.31e+03		mean	8.42e+02	1.14e+03	1.24e+03
т	std	3.25e+02	1.43e+03	6.44e+03		std	6.00e+02	1.62e+03	2.50e+03
T <sub>2</sub>	median	2.75e+00	3.97e-13	3.04e-12		median	2.79e+00	4.61e-13	3.07e-12
	mean std	2.86e+00	1.33e+00 5.06e+00	4.58e-02		mean std	2.68e+00	6.61e-01 3.62e+00	3.21e-12 1.89e-12
т		4.28e-01 3.89e+02		1.97e-01			4.59e-01		
T <sub>3</sub>	median		1.10e+02	3.98e+01		median	3.92e+02	1.03e+02	4.28e+01
	mean	3.89e+02	1.09e+02	4.03e+01		mean std	3.86e+02	1.06e+02	4.19e+01
т	std	5.33e+01	2.25e+01	7.64e+00			5.58e+01	2.14e+01	8.32e+00
T <sub>4</sub>	median	9.90e-03	1.50e-05	8.48e-04		median	5.21e-03	7.52e-06	7.23e-04
	mean std	1.06e-02 5.31e-03	3.30e-05 4.93e-05	1.30e-03		mean std	1.31e-02 1.33e-02	2.28e-05 4.75e-05	9.73e-04 9.46e-04
T <sub>5</sub>	median	2.36e+01	2.39e+01	1.30e-03 5.73e+00		median	2.53e+01		6.39e+00
15	mean				50		2.49e+01	2.43e+01 2.51e+01	
	std	2.37e+01	2.37e+01	5.64e+00		mean std			6.58e+00
T <sub>6</sub>		1.97e+00	5.38e+00	1.69e+00 2.04e+02			1.80e+00	4.53e+00	2.79e+00 2.13e+02
16	median	1.86e+02	4.85e+01			median	6.76e+02	2.52e+02	
	mean std	2.16e+02 1.12e+02	2.99e+02 8.54e+02	5.16e+03		mean std	1.10e+03 7.59e+02	1.12e+03 1.64e+03	6.76e+02 1.13e+03
T <sub>7</sub>	median	2.53e+00	4.02e-13	1.35e+04		median	2.68e+00	4.68e-13	2.90e-12
17	_			3.04e-12 3.19e-12			2.82e+00		3.23e-12
	mean std	2.53e+00	6.62e-01			mean std		6.66e-01	
т		4.68e-01	3.63e+00	1.87e-12			5.40e-01 3.84e+02	3.65e+00 9.95e+01	1.90e-12
T <sub>8</sub>	median	3.86e+02 3.63e+02	1.02e+02	3.93e+01		median	3.84e+02 3.77e+02		4.23e+01
	mean std	7.60e+01	1.05e+02 2.80e+01	4.34e+01		mean std	4.56e+01	1.05e+02 3.10e+01	4.33e+01 6.70e+00
T <sub>9</sub>	median	5.82e-03	7.86e-06	1.10e+01 6.83e-04		median	4.54e-03	3.10e+01 1.63e-05	8.04e-04
19	_	9.47e-03	4.82e-05	6.83e-04 8.98e-04			6.77e-03	3.69e-05	9.84e-04
	mean std	7.74e-03	1.02e-04	6.54e-04		mean std	5.73e-03	6.31e-05	9.84e-04 9.12e-04
T <sub>10</sub>	median	2.62e+01	2.54e+01	6.63e+00		median	2.42e+01	2.20e+01	5.55e+00
1 10	mean	2.62e+01 2.62e+01	2.34e+01 2.33e+01	6.62e+00		mean	2.42e+01 2.42e+01	2.14e+01	5.46e+00
	std	1.23e+00	6.29e+00	2.55e+00		std	2.42e+01 2.04e+00	5.98e+00	1.94e+00
T <sub>11</sub>	median	1.17e+02	4.83e+01	1.10e+03		median	9.19e+02	1.86e+02	2.94e+02
1 11	mean	3.19e+02	3.85e+02	1.14e+04		mean	8.57e+02	1.05e+03	9.69e+02
	std	5.37e+02	1.07e+03	2.20e+04		std	5.60e+02	1.59e+03	1.44e+03
T <sub>12</sub>	median	2.63e+00	4.18e-13	3.05e-12		median	2.70e+00	4.27e-13	3.10e-12
1 12	mean	2.71e+00	4.62e-13	3.24e-12		mean	2.70e+00 2.72e+00	2.00e+00	6.50e-03
	std	6.93e-01	2.15e-13	1.91e-12		std	4.54e-01	6.10e+00	3.56e-02
T <sub>13</sub>	median	3.85e+02	9.80e+01	4.23e+01		median	3.88e+02	9.46e+01	4.13e+01
1 13	mean	3.66e+02	9.75e+01	4.41e+01		mean	3.83e+02	9.82e+01	4.30e+01
	std	6.89e+01	1.92e+01	7.68e+00		std	5.45e+01	2.63e+01	1.06e+01
T <sub>14</sub>	median	3.98e-03	7.76e-06	7.55e-04		median	7.19e-03	1.44e-05	6.10e-04
1 14	mean	7.12e-03	2.68e-04	1.19e-03		mean	9.56e-03	1.03e-04	9.68e-04
	std	6.05e-03	1.35e-03	8.50e-04		std	6.94e-03	2.56e-04	7.74e-04
T <sub>15</sub>	median	2.67e+01	2.52e+01	6.66e+00		median	2.42e+01	2.29e+01	5.41e+00
1 15	mean	2.63e+01	2.45e+01	6.96e+00		mean	2.39e+01	2.29e+01	5.87e+00
	std	2.42e+00	5.70e+00	2.64e+00		std	2.26e+00	6.11e+00	2.83e+00
T <sub>16</sub>	median	3.25e+02	1.21e+02	1.33e+02		median	7.41e+02	8.30e+01	2.68e+02
1 16	mean	3.40e+02	2.29e+02	5.00e+02		mean	8.56e+02	4.31e+02	4.16e+03
	std	7.77e+01	3.72e+02	1.47e+03		std	7.00e+02	8.65e+02	1.81e+04
T <sub>17</sub>	median	2.68e+00	4.54e-13	3.08e-12		median	2.51e+00	5.00e-13	4.75e-12
*17	mean	2.80e+00	6.65e-01	2.29e-03		mean	2.65e+00	6.60e-01	1.06e-01
	std	6.88e-01	3.64e+00	1.25e-02		std	4.19e-01	3.61e+00	4.09e-01
T <sub>18</sub>	median	4.17e+02	1.04e+02	4.53e+01		median	4.20e+02	1.06e+02	3.98e+01
- 18	mean	4.05e+02	1.07e+02	4.57e+01		mean	4.04e+02	1.02e+02	4.12e+01
	std	5.69e+01	2.45e+01	8.46e+00		std	5.61e+01	2.27e+01	9.97e+00
T <sub>19</sub>	median	1.51e-02	5.95e-06	8.52e-04		median	7.15e-03	1.69e-05	1.25e-03
1.7	mean	1.80e-02	3.53e-04	1.12e-03		mean	9.89e-03	6.63e-04	1.84e-03
	std	6.74e-03	1.80e-03	8.83e-04		std	7.52e-03	2.22e-03	1.86e-03
T <sub>20</sub>	median	2.55e+01	2.48e+01	6.73e+00		median	2.33e+01	2.36e+01	4.95e+00
	mean	2.53e+01	2.47e+01	6.70e+00		mean	2.31e+01	2.27e+01	4.92e+00
	std	2.05e+00	4.75e+00	2.14e+00		std	2.37e+00	7.38e+00	2.28e+00
T <sub>21</sub>	median	4.13e+03	4.79e+01	4.05e+04		median	1.88e+02	4.89e+01	2.69e+02
	mean	7.50e+03	5.45e+01	4.63e+04		mean	2.17e+02	2.14e+02	4.95e+03
	std	8.76e+03	2.85e+01	3.72e+04		std	1.39e+02	4.61e+02	1.28e+04
T <sub>22</sub>	median	2.53e+00	4.54e-13	3.03e-12		median	2.72e+00	4.45e-13	4.83e-12
	mean	2.66e+00	2.00e+00	5.08e-04		mean	2.75e+00	1.33e+00	4.91e-02
	std	4.74e-01	6.11e+00	2.78e-03		std	4.74e-01	5.07e+00	2.69e-01
T <sub>23</sub>	median	3.84e+02	1.03e+02	4.68e+01		median	3.89e+02	8.51e+01	4.48e+01
	mean	3.86e+02	1.06e+02	4.74e+01		mean	3.80e+02	9.74e+01	4.43e+01
	std	6.71e+01	2.86e+01	9.78e+00		std	6.20e+01	3.13e+01	6.95e+00
T <sub>24</sub>	median	9.43e-03	7.05e-06	1.12e-03	T <sub>49</sub>	median	6.71e-03	1.41e-05	1.09e-03
27	mean	1.25e-02	5.23e-04	1.86e-03		mean	7.40e-03	3.52e-05	1.66e-03
	std	1.01e-02	2.70e-03	1.95e-03		std	3.80e-03	5.31e-05	2.04e-03
T <sub>25</sub>	median	2.56e+01	2.17e+01	5.95e+00		median	2.28e+01	2.38e+01	5.51e+00
	mean	2.55e+01	2.33e+01	5.74e+00		mean	2.25e+01	2.44e+01	5.50e+00
	std	1.78e+00	6.73e+00	2.32e+00		std	2.44e+00	5.44e+00	1.96e+00

**Table S2.9.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S9** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

Tasle	Ctata	M-TDE	EM-TO MET	MaT EDA	Taula Cana	M-TDE	EM-TO MET	MaT EDA
Task	Stats.	MaTDE	EMaTO-MKT	MaT-EDA	Task Stats.	MaTDE	EMaTO-MKT	MaT-EDA
$T_1$	median	3.50e+02	1.81e+02	2.02e+02	T <sub>26</sub> median	2.84e+00	5.18e-13	1.50e-12
	mean	3.46e+02 5.45e+01	6.58e+02	7.84e+02	mean	3.03e+00 7.66e-01	2.67e+00	4.91e-02
т	std		1.19e+03	1.44e+03	std		6.92e+00	2.69e-01
T <sub>2</sub>	median	2.84e+00	4.25e-13	1.55e-12	T <sub>27</sub> median	3.98e+02	9.95e+01	4.58e+01
	mean	2.79e+00	6.65e-01	3.01e-12	mean	3.93e+02	1.02e+02	4.64e+01
T.	std	4.26e-01	3.64e+00	2.06e-12	std	6.29e+01	2.36e+01	1.14e+01
T <sub>3</sub>	median	4.02e+02	9.95e+01	4.33e+01	T <sub>28</sub> median	4.34e-03	1.14e-05	7.81e-04
	mean	3.89e+02	1.02e+02	4.27e+01	mean	9.12e-03	8.90e-05	1.24e-03
	std	5.38e+01	1.92e+01	8.75e+00	std	7.53e-03	1.89e-04	9.98e-04
T <sub>4</sub>	median	4.33e-03	2.34e-05	8.23e-04	T <sub>29</sub> median	2.53e+01	2.22e+01	4.54e+00
	mean	6.28e-03	4.71e-05	1.38e-03	mean	2.52e+01	2.25e+01	4.94e+00
	std	6.28e-03	6.69e-05	1.37e-03	std	1.60e+00	6.88e+00	2.09e+00
T <sub>5</sub>	median	2.36e+01	2.13e+01	4.42e+00	T <sub>30</sub> median	1.32e+04	5.92e+03	9.73e+03
	mean	2.39e+01	2.24e+01	4.90e+00	mean	1.31e+04	5.99e+03	9.59e+03
	std	2.18e+00	6.66e+00	2.06e+00	std	3.97e+02	9.68e+02	8.25e+02
$T_6$	median	1.30e+04	5.71e+03	9.53e+03	T <sub>31</sub> median	9.17e+02	1.78e+02	4.90e+02
	mean	1.29e+04	5.79e+03	9.73e+03	mean	9.66e+02	7.90e+02	8.83e+02
	std	4.17e+02	9.48e+02	7.92e+02	std	7.25e+02	1.13e+03	1.02e+03
T <sub>7</sub>	median	2.68e+02	4.84e+01	1.39e+03	T <sub>32</sub> median	2.65e+00	5.11e-13	1.52e-12
	mean	5.42e+02	9.84e+01	8.00e+03	mean	2.77e+00	6.71e-01	2.96e-12
	std	9.25e+02	1.70e+02	1.41e+04	std	4.27e-01	3.67e+00	2.01e-12
$T_8$	median	2.81e+00	4.31e-13	1.53e-12	T <sub>33</sub> median	3.87e+02	9.81e+01	4.23e+01
	mean	2.80e+00	6.67e-01	2.95e-12	mean	3.82e+02	9.90e+01	4.26e+01
	std	6.43e-01	3.65e+00	2.00e-12	std	4.74e+01	2.34e+01	1.02e+01
T <sub>9</sub>	median	3.90e+02	1.02e+02	4.23e+01	T <sub>34</sub> median	9.47e-03	1.55e-05	1.12e-03
	mean	3.86e+02	1.03e+02	4.24e+01	mean	9.64e-03	3.84e-05	1.59e-03
	std	7.63e+01	2.61e+01	9.55e+00	std	6.85e-03	6.35e-05	1.66e-03
$T_{10}$	median	3.76e-03	8.45e-06	1.46e-03	T <sub>35</sub> median	2.65e+01	2.58e+01	5.75e+00
	mean	5.12e-03	6.56e-05	1.41e-03	mean	2.60e+01	2.55e+01	5.71e+00
	std	5.20e-03	2.29e-04	1.12e-03	std	2.04e+00	5.41e+00	1.91e+00
T <sub>11</sub>	median	2.56e+01	2.46e+01	4.22e+00	T <sub>36</sub> median	1.32e+04	5.76e+03	9.58e+03
	mean	2.51e+01	2.45e+01	5.06e+00	mean	1.31e+04	5.87e+03	9.55e+03
	std	2.40e+00	4.83e+00	2.73e+00	std	4.32e+02	1.12e+03	8.11e+02
T <sub>12</sub>	median	1.29e+04	5.57e+03	9.36e+03	T <sub>37</sub> median	1.78e+02	4.90e+01	4.34e+02
	mean	1.28e+04	5.61e+03	9.30e+03	mean	2.05e+02	5.13e+02	5.60e+03
	std	3.61e+02	1.28e+03	7.52e+02	std	1.35e+02	1.27e+03	9.95e+03
T <sub>13</sub>	median	1.98e+02	4.89e+01	3.49e+02	T <sub>38</sub> median	2.92e+00	4.75e-13	1.50e-12
	mean	3.03e+02	3.64e+02	5.66e+03	mean	2.93e+00	2.66e+00	2.95e-12
	std	2.63e+02	9.93e+02	1.06e+04	std	4.21e-01	6.90e+00	2.01e-12
T <sub>14</sub>	median	2.58e+00	4.24e-13	1.53e-12	T <sub>39</sub> median	4.09e+02	9.46e+01	4.24e+01
.,,	mean	2.63e+00	6.64e-01	2.98e-12	mean	3.95e+02	9.83e+01	4.27e+01
	std	3.40e-01	3.63e+00	2.04e-12	std	5.36e+01	2.16e+01	8.88e+00
T <sub>15</sub>	median	4.03e+02	1.01e+02	4.13e+01	T <sub>40</sub> median	7.25e-03	1.12e-05	9.92e-04
-13	mean	3.87e+02	1.06e+02	4.15e+01	mean	9.26e-03	2.50e-05	1.32e-03
	std	4.68e+01	3.05e+01	8.05e+00	std	5.48e-03	3.69e-05	1.02e-03
T <sub>16</sub>	median	4.59e-03	7.29e-06	9.01e-04	T <sub>41</sub> median	2.45e+01	2.49e+01	3.40e+00
- 10	mean	9.16e-03	2.73e-04	1.48e-03	mean	2.48e+01	2.47e+01	3.99e+00
	std	8.04e-03	1.39e-03	1.92e-03	std	1.67e+00	6.54e+00	2.23e+00
T <sub>17</sub>	median	2.48e+01	2.38e+01	4.74e+00	T <sub>42</sub> median	1.28e+04	5.16e+03	8.68e+03
*1/	mean	2.46e+01	2.39e+01	5.01e+00	mean	1.27e+04	4.85e+03	8.66e+03
	std	2.25e+00	5.77e+00	2.24e+00	std	6.56e+02	9.90e+02	9.42e+02
T <sub>18</sub>	median	1.31e+04	5.88e+03	9.23e+03	T <sub>43</sub> median	2.88e+02	4.91e+01	1.70e+02
* 18	mean	1.30e+04	5.83e+03	9.32e+03	mean	3.36e+02	3.55e+02	2.74e+03
	std	4.24e+02	9.50e+02	9.83e+02	std	1.65e+02	8.17e+02	1.05e+04
T <sub>19</sub>	median	2.53e+02	4.87e+01	1.28e+02	T <sub>44</sub> median	2.75e+00	4.93e-13	1.49e-12
± 19	mean	2.65e+02	3.34e+02	6.33e+03	mean	2.82e+00	3.34e+00	2.92e-12
<b>-</b>	std	2.63e+02 1.17e+02	9.75e+02	2.13e+04	std	3.72e-01	7.59e+00	2.92e-12 2.02e-12
T <sub>20</sub>	median	2.75e+00	5.52e-13	2.13e+04 1.51e-12	T <sub>45</sub> median	3.61e+02	9.60e+01	4.18e+01
1 20	mean	2.77e+00	4.66e+00	2.99e-12	mean	3.43e+02	1.00e+02	4.05e+01
-					mean std			
т	std median	6.34e-01 3.63e+02	8.59e+00 1.10e+02	2.04e-12 4.18e+01	1	5.66e+01 1.29e-02	2.29e+01 1.24e-05	7.66e+00 1.05e-03
T <sub>21</sub>	_		1.12e+02		T <sub>46</sub> median mean	1.25e-02	2.26e-05	1.46e-03
-	mean	3.68e+02		4.26e+01				
т	std	5.90e+01	2.13e+01	1.07e+01	std T madian	9.02e-03	2.64e-05	1.41e-03
T <sub>22</sub>	median	3.01e-03	6.86e-06	1.03e-03	T <sub>47</sub> median	2.32e+01	2.53e+01	4.53e+00
<b> </b>	mean	6.14e-03	4.81e-05	1.59e-03	mean	2.32e+01	2.48e+01	4.78e+00
T	std	6.53e-03	8.45e-05	1.54e-03	std	2.63e+00	5.79e+00	2.01e+00
T <sub>23</sub>	median	2.59e+01	2.47e+01	6.87e+00	T <sub>48</sub> median	1.30e+04	5.46e+03	9.57e+03
<u> </u>	mean	2.62e+01	2.42e+01	6.66e+00	mean	1.31e+04	5.63e+03	9.57e+03
	std	2.15e+00	5.23e+00	2.72e+00	std	3.11e+02	1.18e+03	1.06e+03
T <sub>24</sub>	median	1.28e+04	5.50e+03	9.22e+03	T <sub>49</sub> median	3.09e+02	4.87e+01	4.52e+03
	mean	1.27e+04	5.60e+03	9.19e+03	mean	4.58e+02	6.72e+01	1.94e+04
	std	6.86e+02	1.06e+03	8.49e+02	std	4.40e+02	6.10e+01	2.64e+04
T <sub>25</sub>	median	8.10e+02	2.59e+02	4.01e+02	T <sub>50</sub> median	2.58e+00	4.59e-13	1.51e-12
	mean	1.32e+03	9.46e+02	8.67e+02	mean	2.67e+00	6.68e-01	2.97e-12
	std	1.08e+03	1.40e+03	9.72e+02	std	4.78e-01	3.66e+00	2.03e-12

**Table S2.10.** The median, mean, and standard deviation of the best fitness values obtained by MaTDE, EMaTO-MKT, and MaT-EDA over 30 independent runs on **S10** in WCCI2020 single-objective many-tasking benchmark suite. The entries highlighted in **bold** indicate that they are the best optimization results.

Table	Ctata	M-TDE	EM-TO MET	MaT EDA	Taula Cana	M-TDE	EM-TO MET	M-T EDA
Task T <sub>1</sub>	Stats. median	MaTDE 2.75e+00	EMaTO-MKT 4.70e-13	MaT-EDA 1.56e-12	Task Stats.	MaTDE n 2.55e+00	EMaTO-MKT 5.36e-13	MaT-EDA 1.51e-12
11	mean	2.82e+00	2.66e-05	2.95e-12	mean	2.59e+00	2.00e+00	4.15e-01
	std	5.97e-01	1.20e-04	1.95e-12	std	5.22e-01	6.11e+00	2.27e+00
T <sub>2</sub>	median	3.62e+02	1.04e+02	4.08e+01	T <sub>27</sub> media		1.05e+02	4.13e+01
	mean	3.62e+02	1.06e+02	4.13e+01	mean	3.74e+02	1.05e+02	4.33e+01
	std	4.53e+01	2.74e+01	8.70e+00	std	4.90e+01	1.77e+01	7.60e+00
T <sub>3</sub>	median	4.58e-03	5.75e-06	1.94e-03	T <sub>28</sub> media	n 9.05e-03	7.57e-06	1.62e-03
	mean	6.69e-03	2.90e-05	2.34e-03	mean	1.25e-02	3.19e-05	2.07e-03
	std	4.96e-03	6.15e-05	1.66e-03	std	9.43e-03	5.81e-05	1.74e-03
$T_4$	median	2.57e+01	2.41e+01	5.62e+00	T <sub>29</sub> media		2.40e+01	4.12e+00
	mean	2.52e+01	2.38e+01	5.87e+00	mean	2.59e+01	2.40e+01	4.71e+00
	std	2.14e+00	6.41e+00	2.60e+00	std	3.44e+00	4.35e+00	2.01e+00
T <sub>5</sub>	median	1.29e+04	5.78e+03	9.42e+03	T <sub>30</sub> media		5.48e+03	9.69e+03
	mean	1.29e+04	5.76e+03	9.50e+03	mean	1.27e+04	5.52e+03	9.38e+03
т	std	4.66e+02	1.02e+03	8.79e+02	std	5.83e+02	1.20e+03	9.79e+02
T <sub>6</sub>	median	2.55e+00	5.04e-13	1.55e-12	T <sub>31</sub> media		4.57e-13	1.53e-12
	mean std	2.68e+00 3.43e-01	4.00e+00 8.13e+00	2.98e-12 2.00e-12	mean std	2.63e+00 4.85e-01	6.73e-01 3.69e+00	2.89e-12 1.90e-12
T <sub>7</sub>	median	3.71e+02	1.04e+02	4.08e+01	T <sub>32</sub> media		9.80e+01	4.41e+01
17	mean	3.62e+02	1.05e+02	4.13e+01	mean	3.61e+02	9.89e+01	4.41e+01
	std	6.12e+01	2.99e+01	8.32e+00	std	5.69e+01	2.20e+01	6.24e+00
T <sub>8</sub>	median	1.07e-02	1.28e-05	1.65e-03	T <sub>33</sub> median		1.05e-05	2.54e-03
- 18	mean	9.94e-03	5.13e-04	2.45e-03	mean	4.66e-03	6.16e-04	2.66e-03
	std	5.34e-03	2.71e-03	3.03e-03	std	2.96e-03	2.21e-03	1.85e-03
T <sub>9</sub>	median	2.38e+01	2.42e+01	4.00e+00	T <sub>34</sub> media		2.47e+01	4.79e+00
	mean	2.32e+01	2.40e+01	4.22e+00	mean	2.57e+01	2.50e+01	4.90e+00
	std	2.00e+00	5.92e+00	1.77e+00	std	2.14e+00	5.39e+00	2.15e+00
$T_{10}$	median	1.32e+04	6.09e+03	9.96e+03	T <sub>35</sub> media		6.20e+03	9.46e+03
	mean	1.31e+04	6.08e+03	1.00e+04	mean	1.27e+04	5.84e+03	9.30e+03
	std	4.45e+02	9.99e+02	7.43e+02	std	6.78e+02	1.10e+03	7.31e+02
$T_{11}$	median	2.79e+00	5.14e-13	1.58e-12	T <sub>36</sub> media		4.59e-13	1.56e-12
	mean	2.93e+00	1.34e+00	2.87e-12	mean	2.67e+00	2.07e+00	2.94e-12
	std	9.70e-01	5.09e+00	1.83e-12	std	4.63e-01	6.11e+00	1.94e-12
T <sub>12</sub>	median	3.74e+02	1.06e+02	4.03e+01	T <sub>37</sub> media		1.05e+02	4.53e+01
	mean	3.74e+02	1.12e+02	4.20e+01	mean	3.51e+02	1.01e+02	4.56e+01
T <sub>13</sub>	std median	3.39e+01 1.52e-02	2.74e+01 <b>6.77e-06</b>	7.86e+00 1.86e-03	std T <sub>38</sub> media	5.00e+01 6.23e-03	2.41e+01 1.03e-05	8.37e+00 1.62e-03
1 13	mean	1.50e-02	1.28e-05	2.28e-03	mean	9.30e-03	5.09e-05	2.58e-03
-	std	4.24e-03	1.63e-05	1.85e-03	std	7.56e-03	1.08e-04	2.28e-03
T <sub>14</sub>	median	2.70e+01	2.50e+01	4.50e+00	T <sub>39</sub> media		2.57e+01	4.46e+00
114	mean	2.65e+01	2.44e+01	4.85e+00	mean	2.25e+01	2.47e+01	4.60e+00
	std	2.46e+00	7.47e+00	1.71e+00	std	2.79e+00	5.96e+00	2.13e+00
T <sub>15</sub>	median	1.28e+04	5.45e+03	8.91e+03	T <sub>40</sub> media		5.50e+03	9.54e+03
- 10	mean	1.27e+04	5.31e+03	8.96e+03	mean	1.31e+04	5.58e+03	9.62e+03
	std	6.55e+02	9.28e+02	6.68e+02	std	4.35e+02	8.81e+02	9.61e+02
T <sub>16</sub>	median	2.94e+00	7.31e-13	1.55e-12	T <sub>41</sub> media	n 2.32e+00	5.28e-13	1.54e-12
	mean	2.85e+00	6.66e+00	1.13e-01	mean	2.62e+00	5.32e+00	2.96e-12
	std	4.36e-01	9.58e+00	6.21e-01	std	7.23e-01	8.97e+00	1.98e-12
T <sub>17</sub>	median	3.90e+02	1.05e+02	4.33e+01	T <sub>42</sub> media		1.01e+02	4.09e+01
<u> </u>	mean	3.76e+02	1.05e+02	4.31e+01	mean	3.61e+02	1.05e+02	4.08e+01
T	std	7.66e+01	2.74e+01	1.05e+01	std	6.69e+01	2.35e+01	7.24e+00
T <sub>18</sub>	median	1.03e-02	7.64e-06	2.13e-03	T <sub>43</sub> media		1.78e-05	2.13e-03
-	mean std	1.05e-02 6.33e-03	2.76e-04	2.57e-03	mean std	1.14e-02	3.84e-05 5.57e-05	2.93e-03
T <sub>19</sub>	median	6.33e-03 2.57e+01	1.36e-03 2.50e+01	1.59e-03 3.82e+00	T <sub>44</sub> media	6.76e-03 n 2.53e+01	<b>5.57e-05</b> 2.77e+01	2.48e-03 5.13e+00
1 19	mean	2.53e+01 2.53e+01	2.55e+01	3.74e+00	mean	2.57e+01	2.62e+01	5.39e+00
<b>—</b>	std	2.58e+00	5.30e+00	1.97e+00	std	1.67e+00	5.72e+00	2.29e+00
T <sub>20</sub>	median	1.31e+04	6.06e+03	8.95e+03	T <sub>45</sub> media		5.86e+03	9.30e+03
- 20	mean	1.30e+04	5.81e+03	9.11e+03	mean	1.30e+04	6.03e+03	9.46e+03
	std	4.68e+02	1.16e+03	8.41e+02	std	6.08e+02	1.30e+03	8.16e+02
T <sub>21</sub>	median	2.48e+00	4.65e-13	1.56e-12	T <sub>46</sub> media		4.79e-13	1.55e-12
	mean	2.52e+00	6.66e-01	3.01e-12	mean	2.77e+00	2.00e+00	2.94e-12
	std	3.03e-01	3.65e+00	1.99e-12	std	4.94e-01	6.11e+00	1.92e-12
T <sub>22</sub>	median	4.12e+02	9.71e+01	4.53e+01	T <sub>47</sub> media		9.85e+01	4.18e+01
	mean	3.95e+02	1.05e+02	4.50e+01	mean	3.78e+02	1.02e+02	4.11e+01
	std	6.03e+01	2.43e+01	1.05e+01	std	3.75e+01	2.20e+01	6.50e+00
T <sub>23</sub>	median	6.20e-03	5.36e-06	1.75e-03	T <sub>48</sub> media		6.60e-06	2.33e-03
<u> </u>	mean	1.25e-02	1.80e-05	2.65e-03	mean	8.01e-03	1.71e-05	3.16e-03
T.	std	2.05e-02	2.76e-05	2.39e-03	std	5.60e-03	2.93e-05	2.93e-03
T <sub>24</sub>	median	2.35e+01	2.39e+01	4.71e+00	T <sub>49</sub> media		2.30e+01	5.30e+00
<u> </u>	mean	2.37e+01	2.26e+01	4.61e+00	mean	2.63e+01	2.33e+01	5.86e+00
T	std	1.79e+00	6.60e+00	1.88e+00	std	1.70e+00	6.59e+00	2.07e+00
T <sub>25</sub>	median	1.27e+04	5.09e+03	9.03e+03	T <sub>50</sub> media		5.45e+03	8.54e+03
	mean	1.26e+04	5.34e+03	9.14e+03	mean	1.25e+04	5.57e+03	8.56e+03
	std	5.65e+02	1.16e+03	1.04e+03	std	5.32e+02	1.29e+03	8.57e+02