Table 1: The Scott-Knott ranks (r) on the MRE, and the median and interquartile range of MRE, denoted as Med (IQR), of DaL under different local models and their global counterparts. The green cells denote the one with the best rank over all the approaches.

		DaL	DNN	Z	$DaL_{RF}$		RF	Dalcart		DT	$DaL_{LR}$		LR	Da	Dalsvr	SVR	~	DaLKRR		KRR	DaL <sub>kNN</sub>	>	KNN	z
System	Size r	Med (IQR)	r Med	Med (IQR)	r Med (IQR)	7	Med (IQR)	r Med (IQR)	7	Med (IQR)	r Med (IQR)	, r	Med (IQR)	r M.	Med (IQR)	r Med	Med (IQR)	Med (IQR)	) r	Med (IQR)	r Med (IQR)	QR) r	Med	Med (IQR)
. •	Size 1 1	21.02 (6.64)	2 20.1	20.19 (6.34)	1 21.39 (5.01)	3	21.20 (7.72)	2 21.61 (6.69)	2	20.85 (12.99)	1 19.71 (6.80)	3) 2	27.72 (4.98)	4 23.	23.30 (4.08)	4 22.67	22.67 (3.66) 6	36.95 (3.77)	.) 1	49.97 (14.23)	2 21.71 (4.97)	4.97) 2	22.09	22.09 (3.33)
<b>5</b> )	Size 2 2	9.82 (5.39)	1 9.79	9.79 (4.56)	2 10.66 (5.81)	2	12.02 (6.58)	2 10.41 (5.04)	1	10.06 (3.05)	3 11.03 (7.55)	. 2	17.61 (2.41)	6 17.	(97.59 (3.76)	7 20.31	20.31 (3.18) 8	34.87 (4.66)	6	34.72 (3.83)	4 13.73 (4.61)	4.61) 6	18.64	18.64 (2.56)
APACHE S	Size 3 1	7.17 (2.67)	2 7.98	(1.91) 86.7	3 7.93 (3.15)	2	7.65 (1.46)	4 9.10 (1.31)	4	9.03 (1.13)	1 7.42 (2.14)	7	16.16 (1.41)	6 15.	15.92 (2.45)	9 18.50	18.50 (1.54) 10	25.88 (4.60)	11	33.54 (2.80)	5 11.60 (1.49)	8 (64.1	17.30	17.30 (1.39)
<b>5</b> )	Size 4 2	6.59 (1.77)	2 6.85	6.85 (1.60)	3 6.96 (1.32)	2	6.63 (1.19)	5 7.97 (1.35)	4	7.81 (1.35)	1 6.39 (1.16)	00	16.12 (0.78)	7 13.	13.89 (2.35)	9 18.57	18.57 (1.58) 10	22.79 (1.77)	11	32.31 (1.38)	6 11.00 (1.44)	1.44) 8	15.64	15.64 (1.46)
V)	Size 5 2	5.96 (2.07)	4 6.66	6.66 (1.61)	4 6.51 (1.41)	3	6.43 (1.11)	5 7.63 (1.00)	2	7.71 (1.03)	1 5.75 (0.55)	6	16.12 (1.37)	7 12.	12.63 (1.76)	10 17.82	17.82 (1.78) 11	21.79 (2.07)	.) 12	32.11 (1.43)	6 10.45 (1.28)	1.28) 8	14.75	14.75 (1.41)
	Size 1 2	41.77 (32.54)	2 43.66	43.66 (42.88)	2 58.22 (37.41)	9 (.	253.78 (93.63)	1 47.20 (19.75)	5) 1	36.17 (9.11)	3 65.09 (37.30)	8 ((	698.12 (713.51)	3 65.	55.38 (22.26)	4 154.7	154.71 (52.45) 2	64.22 (15.94)	7 (4)	231.74 (136.07)	3 68.32 (34.34)	34.34) 5	201.5	201.51 (70.38)
V)	Size 2 1	17.22 (15.67)	1 18.1	18.17 (8.11)	3 30.69 (29.47)	-4	73.41 (118.30)	1 16.81 (8.59)	2	19.61 (7.19)	7 49.04 (47.11)	1) 6	545.48 (149.70)	5 70.	70.56 (64.18)	5 117.8	117.87 (49.95) 4	43.14 (41.44)	9 (4:	280.15 (96.55)	5 78.59 (42.86)	42.86) 6	245.08	245.08 (180.15)
BDB-C S	Size 3 2	5.74 (6.84)	5 12.47	12.47 (4.08)	4 15.30 (6.90)	4	18.64 (19.42)	3 6.72 (5.82)	1	7.44 (3.70)	6 29.00 (78.81)	6 (1	465.51 (91.79)	8 65.	55.69 (155.89)	7 97.22	97.22 (52.60) 6	26.43 (70.74)	4) 6	283.32 (39.54)	8 58.12 (121.53	121.53) 9	279.13	279.13 (144.62)
91	Size 4 1	3.68 (2.78)	3 9.06	9.06 (9.76)	3 9.40 (3.63)	4	11.32 (6.77)	1 4.15 (2.78)	2	5.74 (3.97)	5 24.55 (4.18)	6	441.04 (85.57)	6 51.	51.04 (29.64)	6 93.39	93.39 (41.17) 5	23.34 (4.86)	8	295.23 (47.23)	6 60.43 (18.64)	18.64) 7	258.59	258.59 (144.43)
31	Size 5 1	2.15 (1.52)	3 7.08	7.08 (8.03)	2 6.87 (3.29)	4	6.64 (3.35)	1 3.24 (3.09)	1	3.32 (2.50)	4 22.88 (3.78)	6	456.02 (78.01)	6 46.	46.18 (19.08)	7 105.1	105.14 (56.61) 5	22.11 (3.66)	6 (:	316.72 (43.94)	6 56.42 (16.71)	16.71) 8	178.9	178.91 (128.49)
	Size 1 2	3.14 (2.90)	2 2.98	2.98 (3.34)	2 5.05 (5.05)	3	8.36 (10.48)	1 2.98 (0.81)	-1	3.03 (0.99)	9 5.31 (2.96)	8	43.23 (6.15)	6 22.	22.77 (17.72)	4 12.93	12.93 (3.37) 3	6.42 (9.07)	7	34.58 (4.94)	5 20.31 (7.60)	7.60) 5	24.03 (7.11	(7.11)
<b>V</b> )	Size 2 4	1.90 (0.37)	3 1.91	1.91 (0.68)	1 1.79 (0.35)	1	1.82 (0.29)	3 2.05 (0.33)	2	1.99 (0.29)	4 3.77 (0.49)	10	37.85 (6.27)	8 15.	15.28 (12.28)	5 10.54	10.54 (0.97) 4	3.74 (0.67)	6	32.28 (6.74)	6 12.00 (4.59)	4.59) 7	14.07	14.07 (6.61)
BDB-J S	Size 3 2	1.61 (0.31)	3 2.01	2.01 (1.10)	1 1.58 (0.27)	1	1.57 (0.21)	2 1.92 (0.27)	2	1.87 (0.35)	3 3.41 (0.46)	∞	37.61 (3.49)	6 15.	15.03 (10.36)	5 11.03	11.03 (0.89) 3	3.32 (0.55)	7	32.51 (3.83)	4 9.42 (3.95)	95) 4	9.06 (2.44)	2.44)
<i>y</i> )	Size 4 2	1.61 (0.29)	4 1.70	1.70 (0.37)	1 1.41 (0.21)	1	1.43 (0.21)	3 1.67 (0.29)	3	1.69 (0.36)	4 3.57 (0.66)	6	37.57 (3.48)	8 9.2	9.20 (5.36)	8 11.25	11.25 (1.35) 5	3.51 (0.58)	6	33.14 (3.69)	7 5.99 (6.08)	9 (80	5.85 (2.05)	2.05)
32	Size 5 2	1.46 (0.26)	4 1.69	1.69 (0.48)	1 1.40 (0.28)	1	1.40 (0.23)	3 1.67 (0.43)	3	1.68 (0.39)	4 3.23 (0.65)	6	37.48 (2.86)	7 8.2	8.21 (3.87)	8 11.51	11.51 (2.21) 5	3.19 (0.63)	6	34.15 (3.03)	6 3.68 (1.40)	40) 6	3.74 (0.92)	0.92)
3)	Size 1 1	8.04 (1.30)	1 8.04	8.04 (3.06)	3 8.72 (2.49)	2	8.18 (2.78)	3 8.78 (4.06)	3	8.77 (2.89)	4 10.43 (3.40)	2	14.36 (4.34)	5 14.	14.31 (2.24)	9 25.72	25.72 (2.91) 8	24.55 (5.85)	9 (:	19.75 (10.27)	4 11.81 (1.31)	1.31) 7	18.40	18.40 (1.66)
9)	Size 2 1	3.21 (1.95)	1 3.17	3.17 (1.00)	3 6.50 (1.18)	3	6.42 (1.20)	3 6.44 (2.02)	3	6.50 (1.63)	2 3.65 (2.34)	4	8.01 (1.23)	7 9.5	9.92 (2.44)	9 18.83	18.83 (5.32) 4	7.53 (3.80)	2	8.35 (1.40)	6 9.45 (1.53)	53) 8	15.63	15.63 (2.24)
x264 S	Size 3 1	1.66 (0.57)	2 2.23		5 4.92 (0.92)	2		4 4.74 (0.91)	4	4.72 (0.73)	2 3.13 (2.43)	2	7.61 (0.76)	6 7.1	7.13 (3.03)	9 13.66	13.66 (2.32) 5	5.10 (1.65)	7	7.69 (0.80)	8 8.95 (1.75)	75) 9	13.83	13.83 (3.45)
3)	Size 4 1	1.13 (0.63)	2 1.74	1.74 (0.98)	5 4.07 (0.75)	9	4.04 (0.86)	3 3.32 (1.09)	4	3.65 (1.03)	3 2.92 (2.05)	7	7.34 (0.39)	7 5.1	5.15 (2.95)	10 10.24	10.24 (1.41) 6	3.66 (1.82)	∞	7.29 (0.51)	9 8.24 (1.51)	51) 11		12.53 (2.12)
37	Size 5 1	0.79 (0.33)	2 1.44	1.44 (0.90)	5 2.88 (0.76)	9	2.98 (0.77)	3 1.97 (0.88)	4	2.37 (1.11)	6 2.74 (2.18)	8	7.17 (0.60)	8 3.6	3.62 (3.02)	11 9.19	9.19 (0.76) 7	3.06 (1.89)	6	7.09 (0.71)	10 7.45 (1.07)	07) 13	11.48	11.48 (1.54)
	Size 1 1	4.66 (1.32)	8 7.09	7.09 (3.04)	6 16.99 (2.70)	2	16.63 (2.10)	7 21.65 (2.31)	7	21.34 (2.41)	2 7.72 (0.80)	11	55.91 (19.98)	4 16.	16.00 (2.48)	5 16.63	16.63 (1.38) 3	8.63 (1.15)	10	39.60 (11.07)	8 26.22 (2.77)	2.77) 9	33.80	33.80 (9.19)
9)	Size 2 1	2.66 (0.68)	2 3.69	3.69 (0.61)	5 11.53 (1.37)	9	11.46 (1.78)	8 15.59 (1.41)	∞	16.43 (1.52)	2 7.35 (0.47)	10	52.54 (10.70)	7 15.	15.24 (1.32)	8 16.30	16.30 (2.16) 4	7.43 (0.64)	10	43.28 (9.80)	9 22.77 (3.64)	3.64) 9	21.71	21.71 (3.19)
HSMGP S	Size 3 1	1.56 (0.20)	2 2.28	2.28 (0.37)	4 7.38 (0.56)	2	7.58 (0.67)		7	11.26 (0.98)	2 7.14 (0.35)	10	51.38 (9.85)	6 10	(98.0) 50.01	9 15.03	15.03 (0.66) 3	7.13 (0.30)		47.42 (9.96)		8 (65.1	14.27	14.27 (1.63)
• )	Size 4 1	1.49 (0.15)	2 2.23		3 6.63 (0.55)	4	6.88 (0.61)	7 10.13 (0.57)	∞	10.14 (0.72)	4 7.16 (0.17)	11	49.63 (9.43)	6 8.5	8.95 (0.90)	10 15.07	15.07 (0.56) 5	7.16 (0.22)	11	45.84 (9.11)	9 12.83 (0.87)	0.87) 9	12.83	12.83 (1.15)
3)	Size 5 1	1.16 (0.08)	2 1.94	1.94 (0.63)	3 5.13 (0.25)	3	5.15 (0.28)	7 7.46 (0.46)	9	7.43 (0.34)	10 7.15 (0.20)	6	49.05 (3.00)	4 5.8	5.87 (0.52)	8 8.60	8.60 (0.38) 5	7.14 (0.21)	10	45.16 (2.81)	9 9.36 (0.58)	58) 9	9.26 (0.65)	0.65)
9)	Size 1 1	9.07 (1.18)	2 9.70	9.70 (1.28)	3 11.48 (0.85)	3	11.08 (0.66)	4 12.03 (0.93)	4	12.07 (1.06)	9 12.70 (1.22)	8	20.49 (1.61)	5 13.	13.06 (0.51)	7 14.84	14.84 (0.62) 4	12.17 (0.77)	6 (.	17.76 (1.12)	6 14.10 (1.22)	1.22) 8	16.86	16.86 (1.22)
	Size 2 1	5.55 (0.60)	2 6.89	6.89 (1.44)	3 8.37 (0.61)	3			3	8.20 (1.00)	6 11.64 (0.35)	10	19.67 (0.83)	5 11	11.27 (0.44)	6 14.52	14.52 (0.54) 5	11.36 (0.31)	8	18.27 (0.65)	4 11.07 (0.37)	0.37) 7	16.02	16.02 (0.69)
HIPA <sup>cc</sup> S	Size 3 1	4.39 (0.41)	2 4.68	4.68 (0.90)	3 6.75 (0.42)	3		3 6.62 (0.80)	3	6.60 (0.75)	5 11.43 (0.34)		19.35 (0.72)	5 10	10.78 (0.28)	8 14.48	14.48 (0.57) 6	11.21 (0.41)	) 10	18.80 (0.84)	4 9.79 (0.41)	41) 9	15.79	15.79 (0.66)
9)	Size 4 1	3.22 (0.35)	2 3.58	3.58 (1.00) 4	4 4.56 (0.33)	4		•	3	4.31 (0.44)	8 11.13 (0.25)	_	18.97 (0.46)	7 10	10.31 (0.14)	10 12.06	12.06 (0.25) 8	11.03 (0.25)	- 11	18.34 (0.52)	6 8.14 (0.36)	36) 5	7.95 (0.32)	0.32)
31	Size 5 1	2.39 (0.22)	2 2.82	2.82 (0.57)	3 2.71 (0.09)	2			2	2.70 (0.17)	10 11.01 (0.15)	12	18.81 (0.37)	7 10	10.04 (0.09)	8 10.52	10.52 (0.24) 9	10.93 (0.12)	_	18.48 (0.34)	5 5.77 (0.37)	37) 6	6.20 (0.59)	0.59)
9)	Size 1 1	1.59 (0.36)	5 4.68		4 3.19 (0.59)	9			3	2.47 (0.70)	5 12.72 (0.84)		43.69 (5.81)	9 13	13.84 (0.76)	10 22.37	22.37 (3.68) 7	12.48 (0.87)	_	32.53 (3.29)	10 22.76 (2.40)			23.86 (1.87)
	Size 2 4	1.21 (0.09)	5 2.39	2.39 (1.21)	3 1.41 (0.18)	4		1 1.24 (0.24)	2	1.30 (0.22)	4 12.42 (0.44)	8	42.04 (3.16)	6 10	10.30 (0.49)	11 23.53	23.53 (1.46) 7	12.26 (0.51)	.) 12	34.52 (2.16)	9 20.95 (1.45)	1.45) 10		21.62 (1.59)
VP8 S	Size 3 1	1.12 (0.08)	2 1.93	1.93 (0.72)	2 1.15 (0.15)	2			3	1.18 (0.21)	5 12.41 (0.34)	-11	42.65 (2.99)	5 10	(0.11 (0.56)	9 25.02	25.02 (1.93) 6	12.28 (0.42)	10	36.18 (2.01)	8 20.46 (1.19)	8 (61.1	20.46	20.46 (1.41)
9)	Size 4 1	1.10 (0.06)	2 1.54	1.54 (0.40)   2	2 1.02 (0.08)	2			2	1.09 (0.08)	3 12.35 (0.31)	8	42.08 (2.79)	4 9.8	9.81 (0.36)	6 26.13	26.13 (1.14) 3	12.30 (0.32)	7	36.70 (2.24)	5 20.04 (0.84)	0.84) 6	19.38	19.38 (0.96)
9)	Size 5 1	1.07 (0.05)	2 1.45	1.45 (0.23)	3 0.85 (0.03)	4		2 0.94 (0.04)	3	0.94 (0.05)	6 12.41 (0.27)	12	42.69 (1.94)	7 9.7	9.71 (0.21)	10 15.54	15.54 (0.77) 5	12.36 (0.23)	11	39.07 (1.39)	8 16.69 (0.50)	0.50)	16.91	16.91 (0.66)
• )	Size 1 3	26.40 (6.94)	4 35.4	35.40 (16.59)	2 24.25 (11.29)	3	21.71 (7.45)	1 17.95 (10.85)	5) 2	23.50 (10.09)	5 117.37 (24.65)	65) 10	369.45 (116.78)	5 59	59.16 (13.29)	5 63.04	63.04 (23.36) 7	91.09 (20.87)	6 (2:	259.82 (85.61)	6 62.85 (14.79)	14.79) 5	57.77	57.77 (8.08)
9)	Size 2 3	15.37 (6.04)	4 21.4	21.46 (4.53)	2 10.71 (2.06)	2	10.18 (2.12)	1 9.09 (2.56)	2	10.47 (4.94)	5 109.11 (20.26)	36) 8	315.34 (66.07)	6 63.	63.84 (11.18)	6 61.82	51.82 (34.55) 7	92.08 (18.31)	(1)	266.54 (39.81)	5 49.05 (4.48)	4.48) 5	49.30	49.30 (4.05)
Lrzip S	Size 3 3	11.83 (4.53)	4 18.6	18.68 (3.20)	2 8.03 (1.01)	-	7.90 (1.27)	1 7.77 (2.09)	2	8.62 (4.75)	6 104.20 (17.55)	6 (55	322.55 (50.28)	7 63.	63.91 (13.58)	6 66.09	56.09 (41.44) 8	92.48 (18.85)	(2)	276.22 (39.10)	5 46.39 (3.86)	3.86) 5	46.20	46.20 (7.19)
9)	Size 4 3	10.10 (3.23)	4 15.5:	15.55 (1.71)	4 6.54 (1.58)	7	6.51 (0.69)	1 6.38 (2.72)	2	7.09 (2.76)	8 103.74 (14.29)	29) 10	323.59 (56.77)	2 65.	55.19 (12.53)	3 69.07	69.07 (5.93) 6	93.27 (11.75)	.2) 6	284.33 (43.40)	5 44.80 (5.06)	90.6	45.86	45.86 (5.10)
3)	Size 5 3	6.60 (1.34)	4 10.1	10.17 (0.91)	1 3.31 (0.87)	3	3.67 (1.31)	1 3.58 (0.97)	2	4.47 (1.90)	7 105.83 (7.06)	6 (5	327.20 (27.08)	7 48	48.80 (2.86)	8 51.27	51.27 (2.21) 9	98.66 (7.44)	11	293.61 (23.26)	5 28.71 (3.40)	3.40) 6	30.31	30.31 (7.80)
Average	1.625	25	2.775		2.9	3.375		2.95	3.15		4.625	8.575	75	9		7.475	2,	35	9.125		6.25	7.	35	