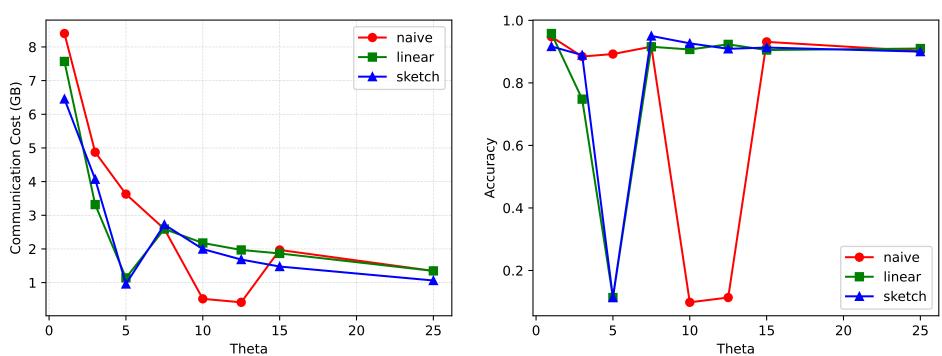
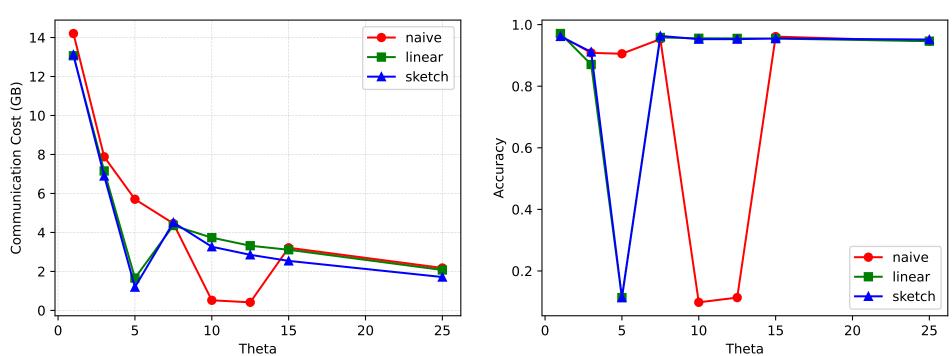
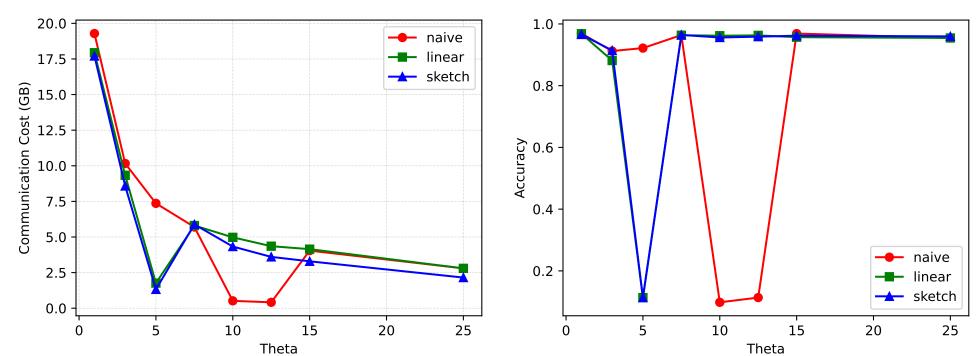
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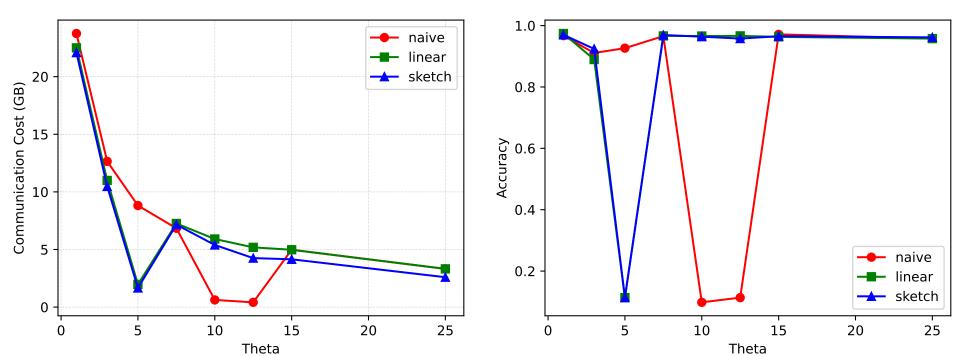
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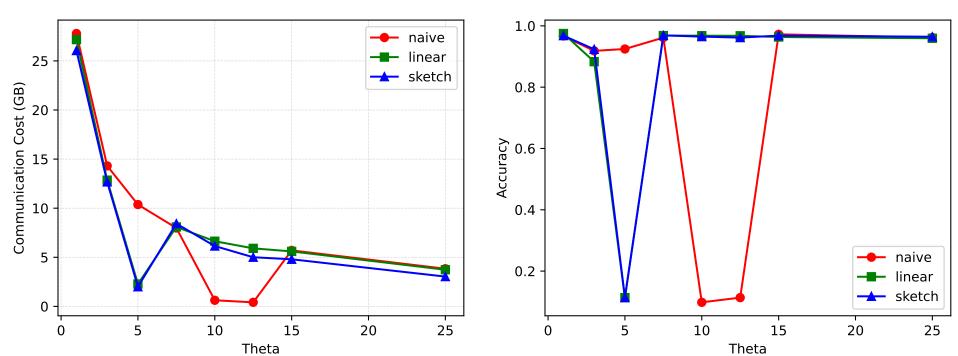
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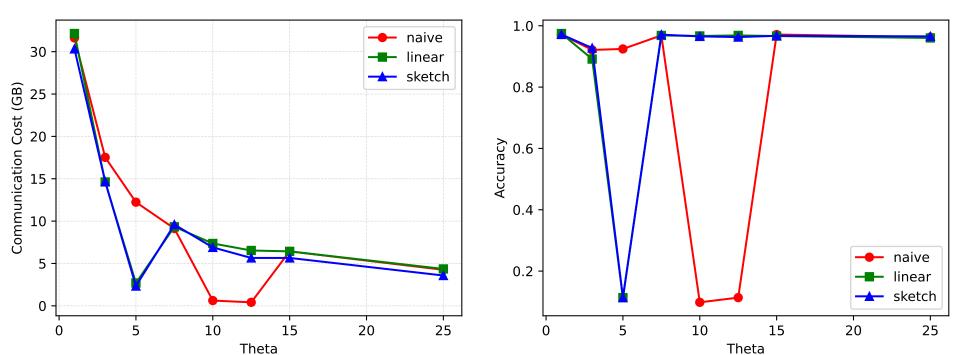
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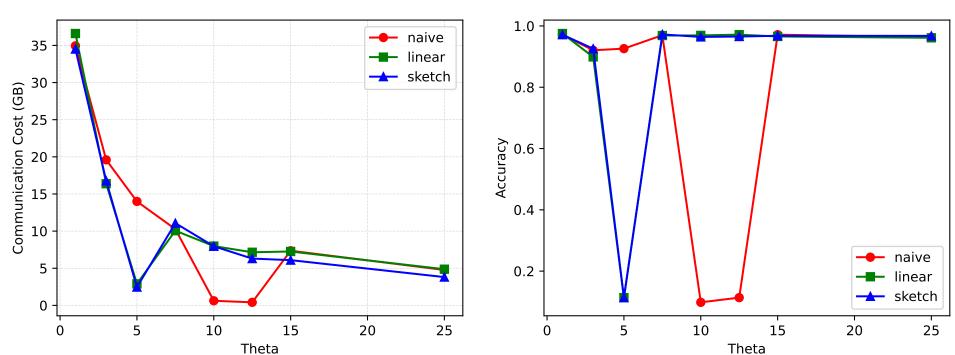
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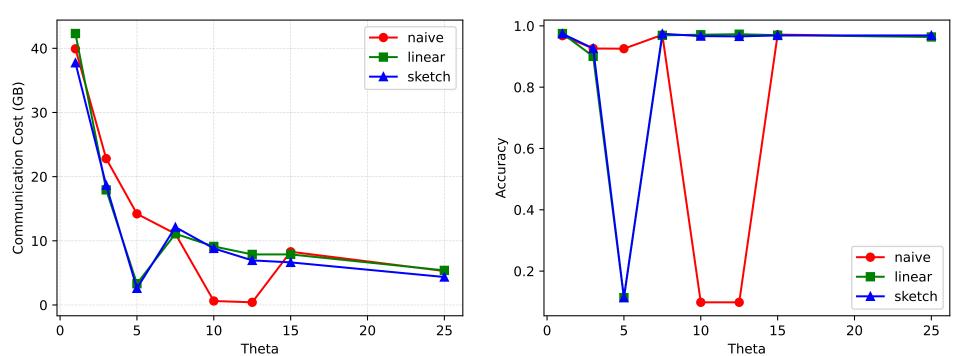
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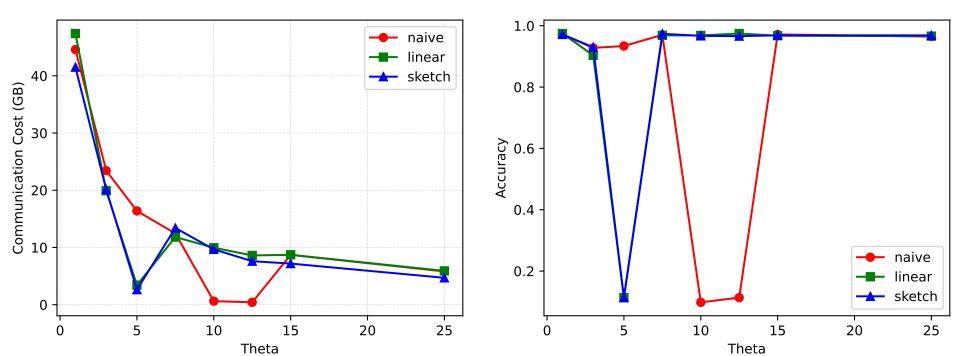
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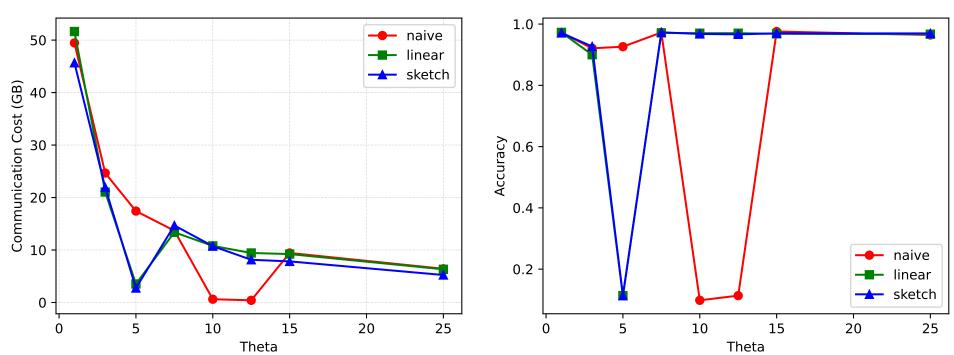
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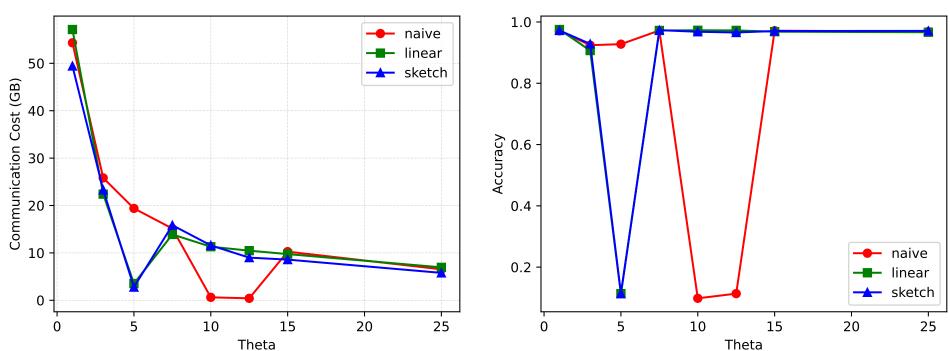
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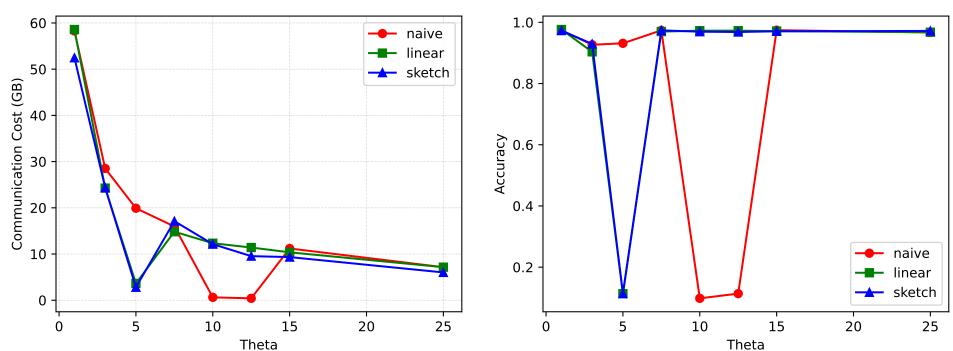
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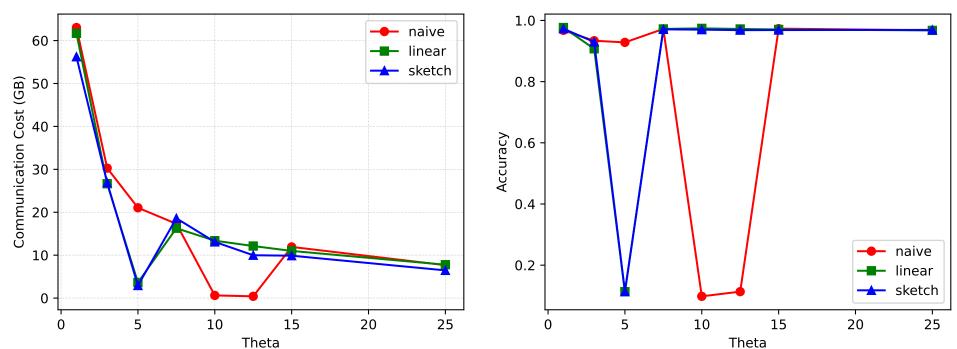
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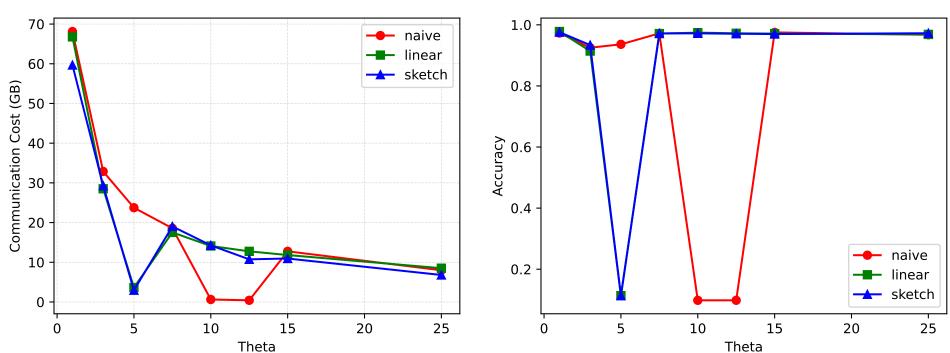
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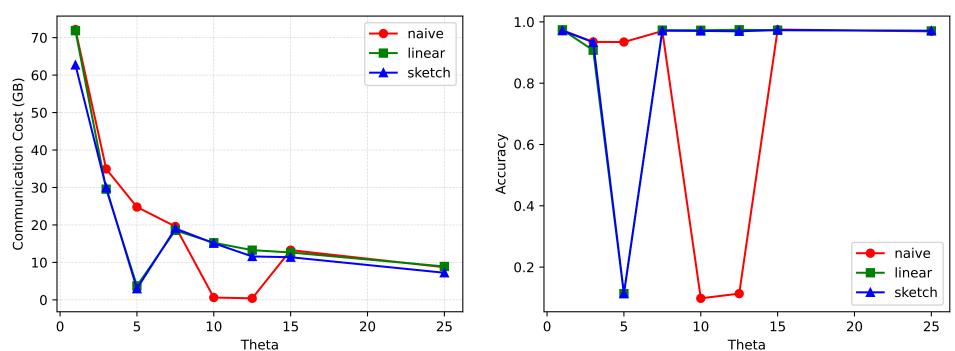
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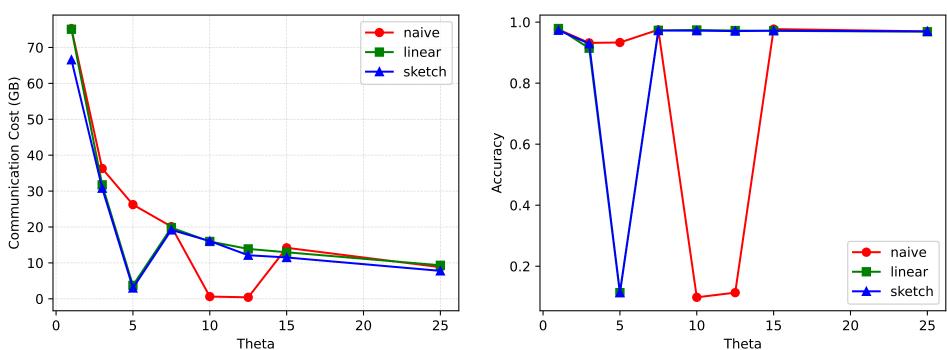
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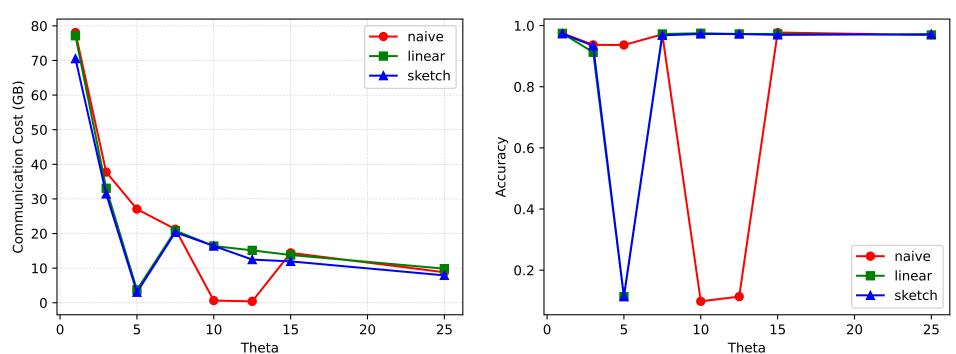
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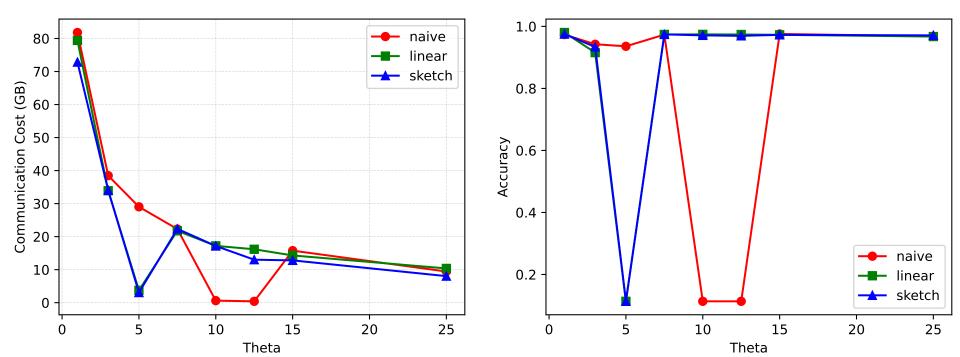
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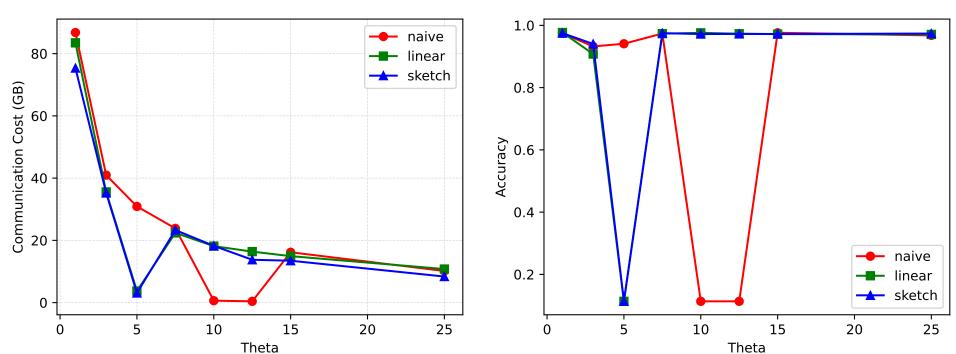
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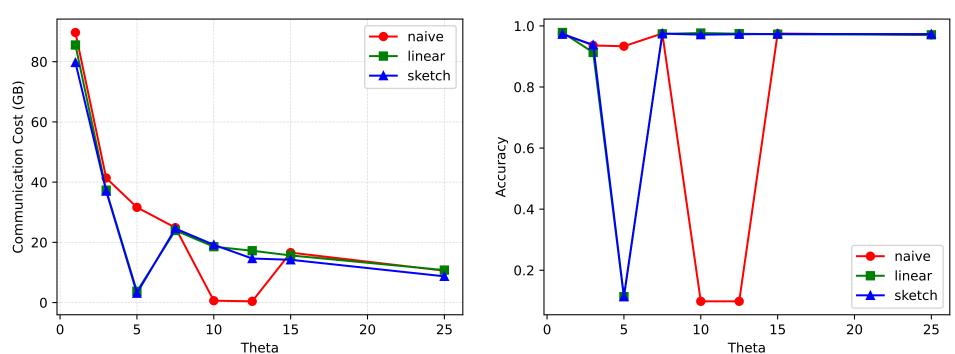
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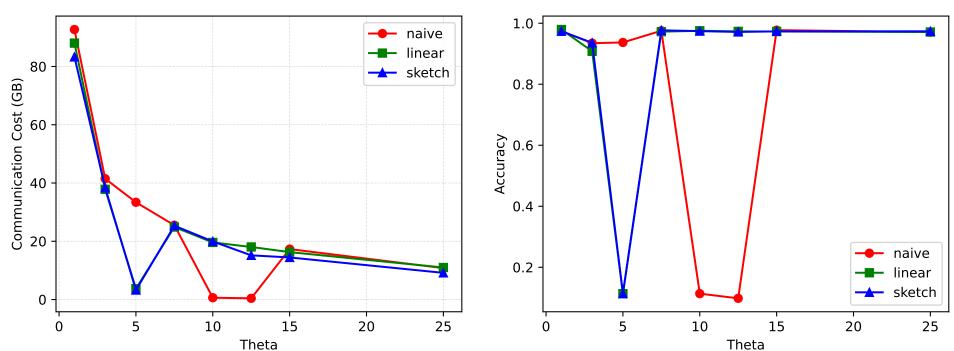
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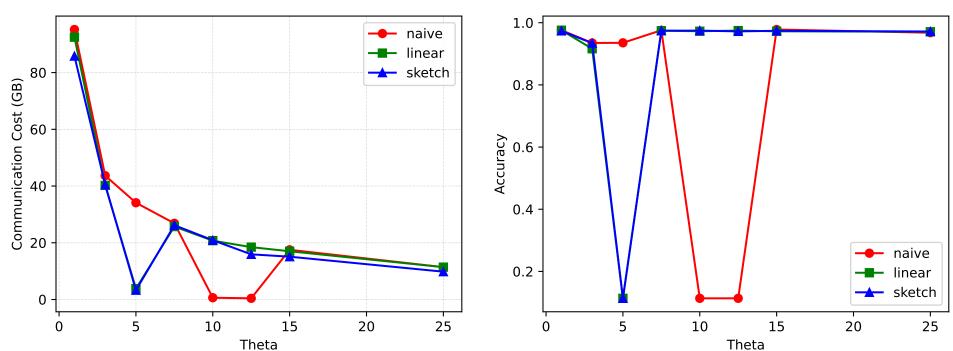
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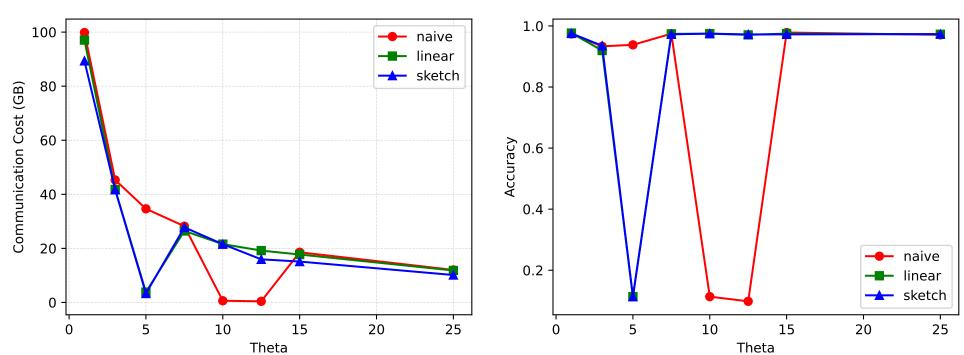
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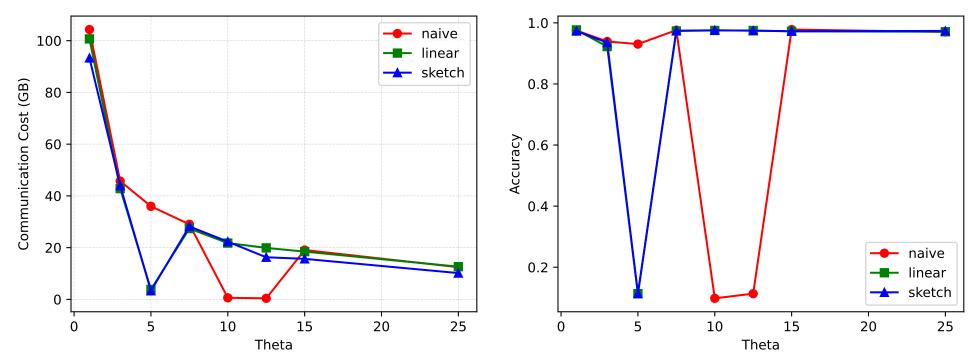
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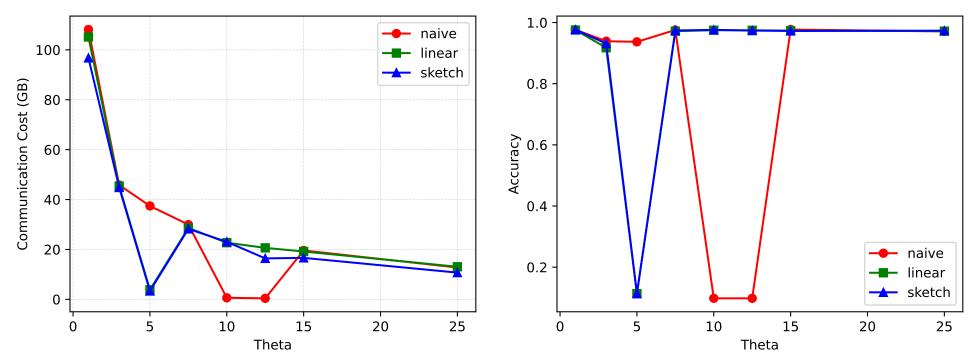
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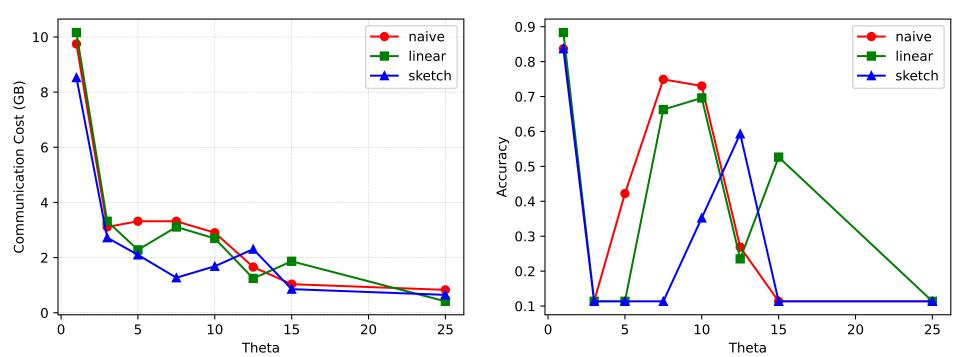
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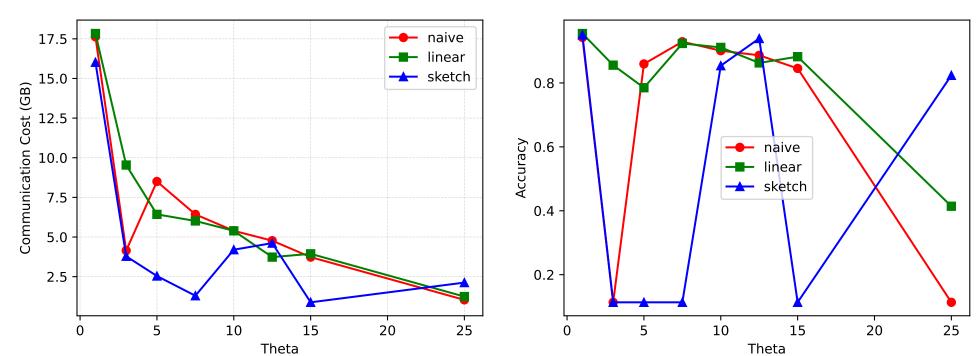
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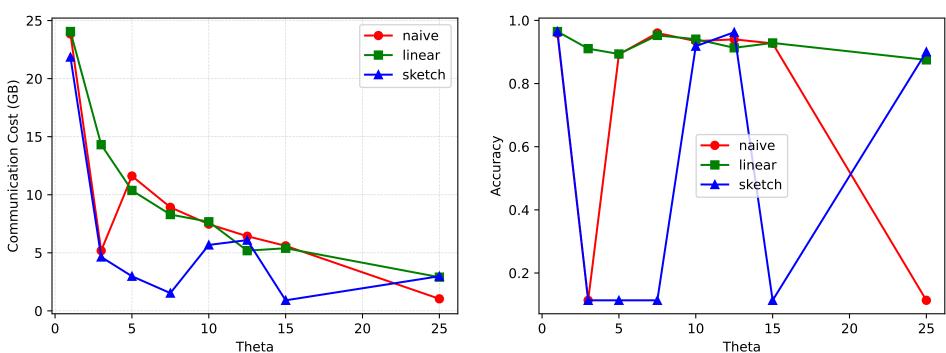
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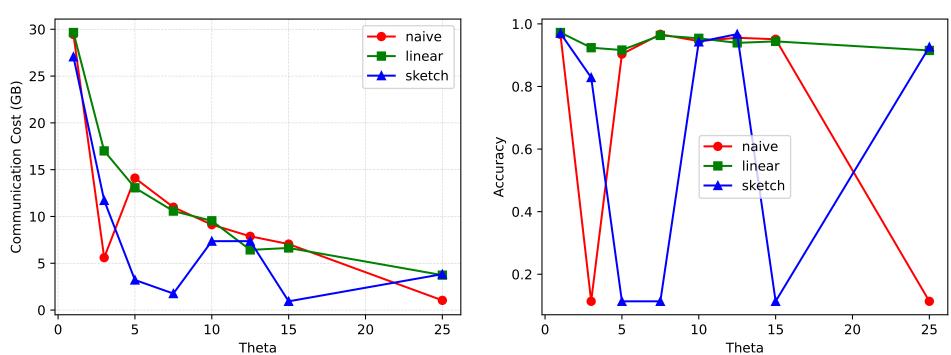
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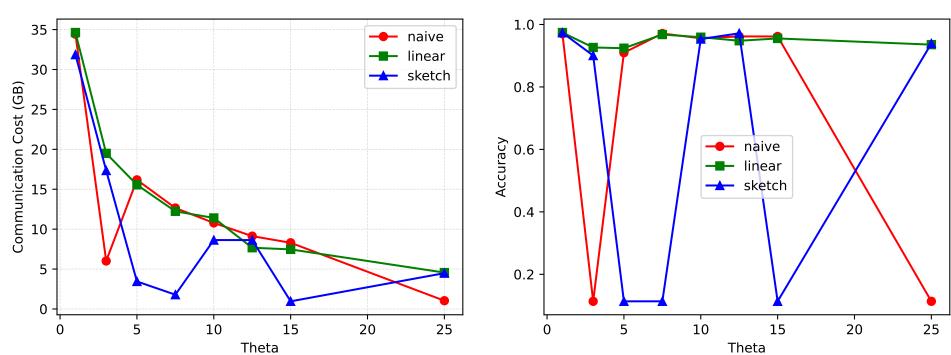
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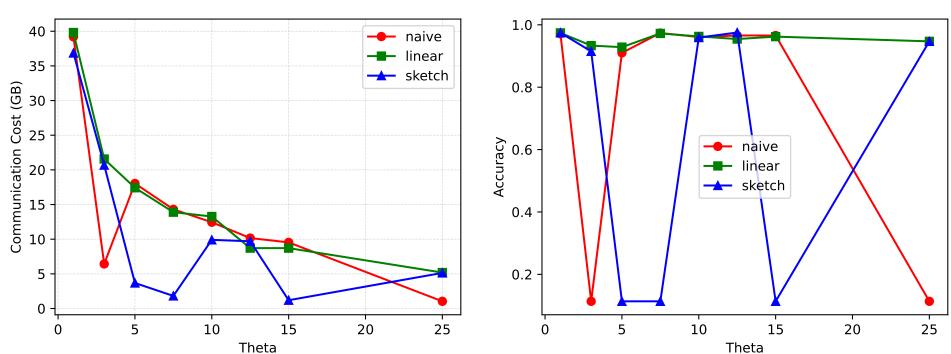
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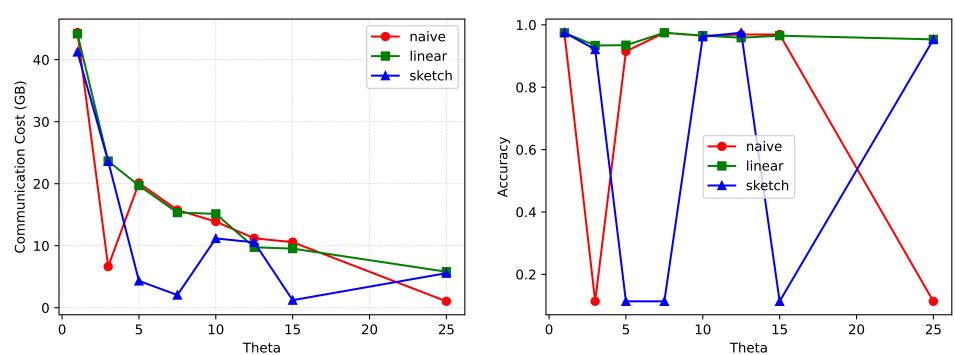
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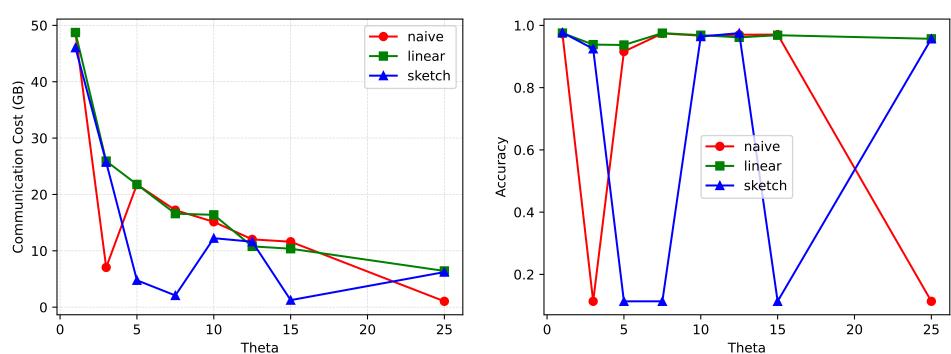
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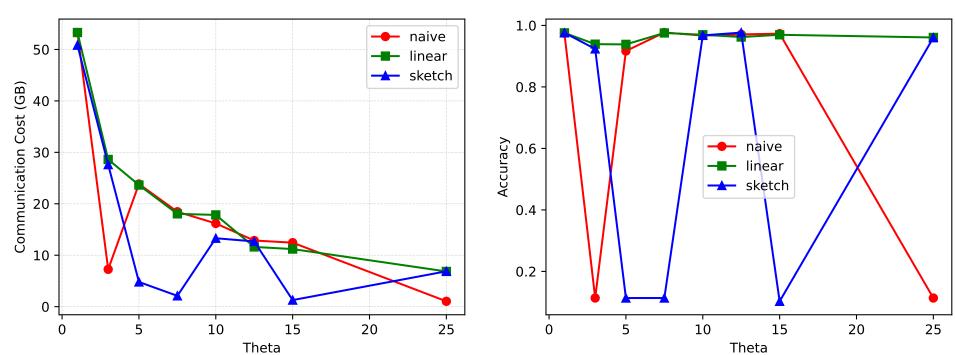
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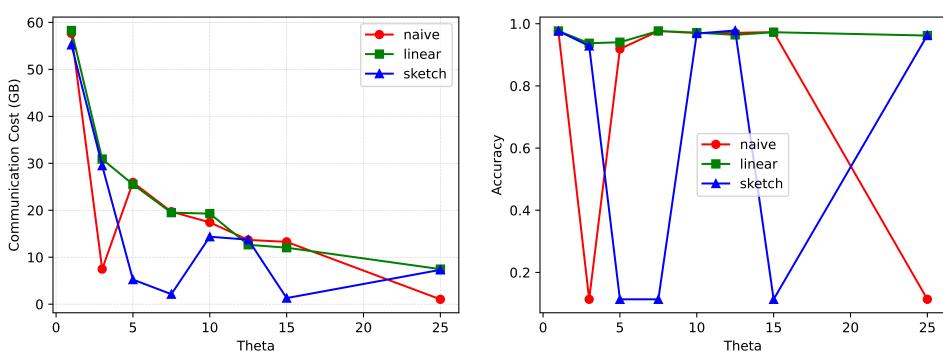
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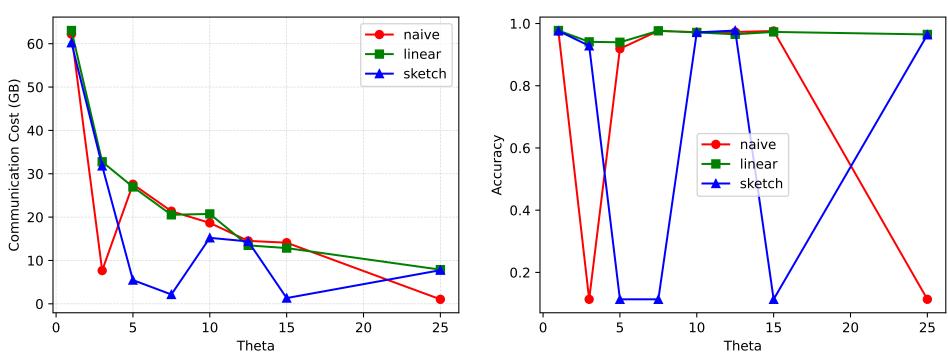
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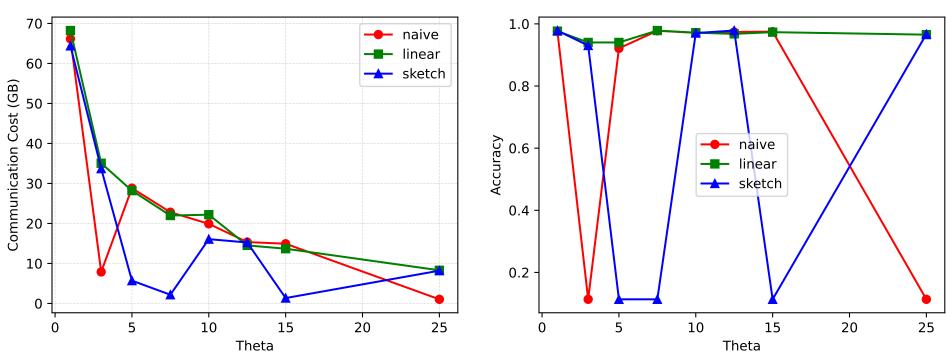
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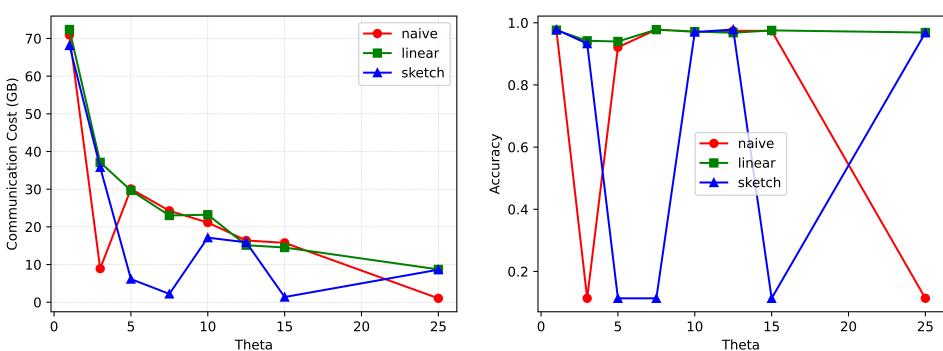
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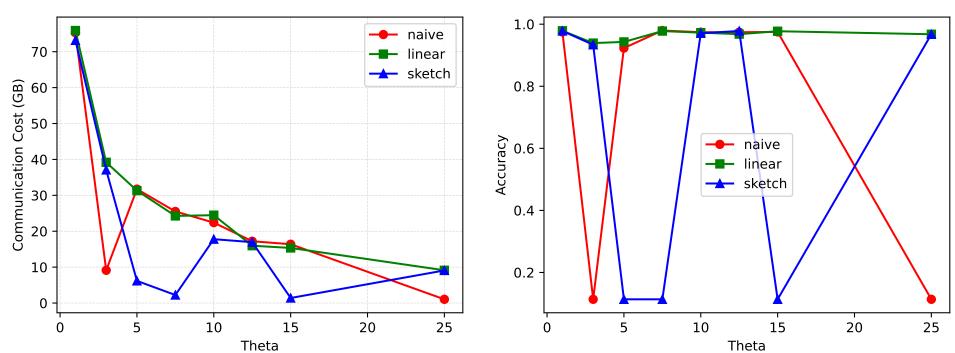
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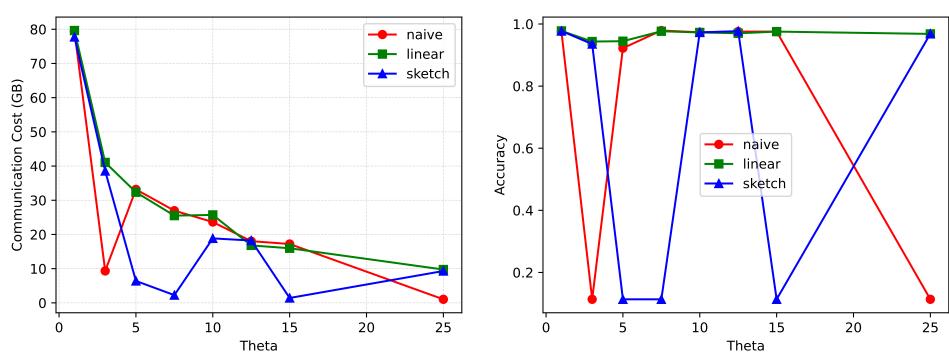
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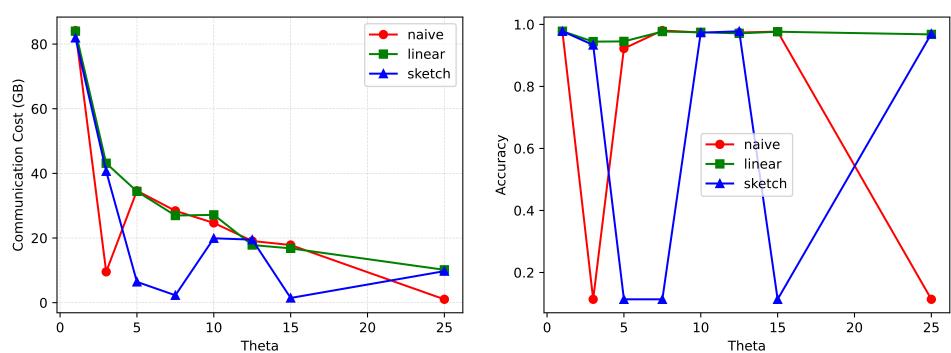
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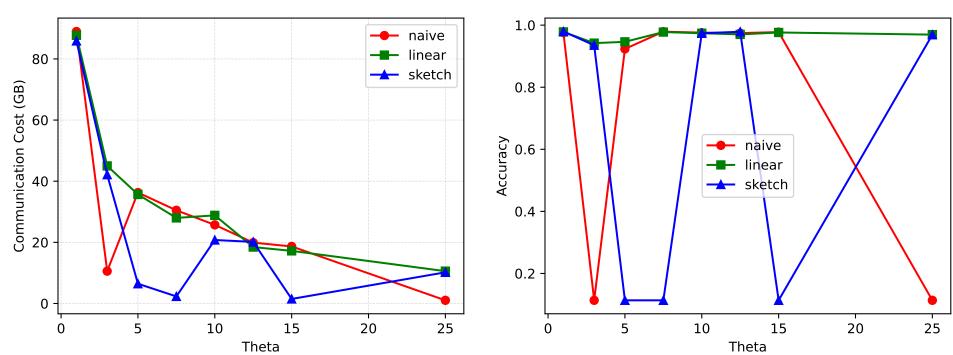
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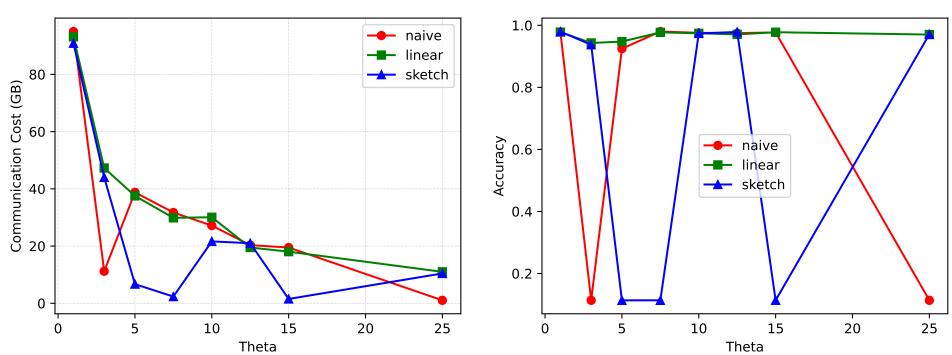
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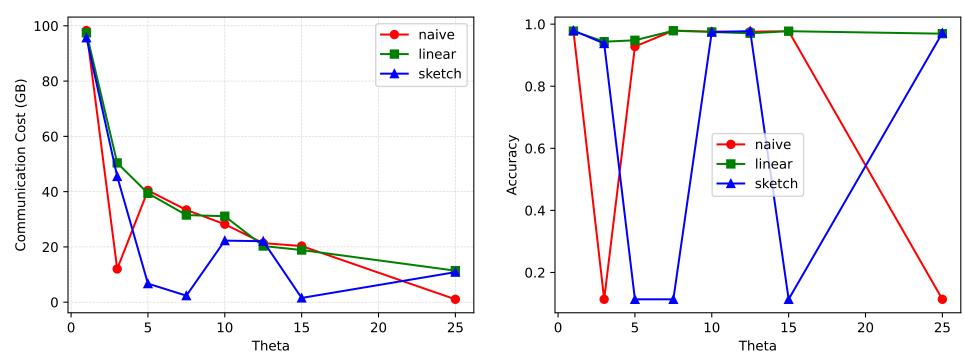
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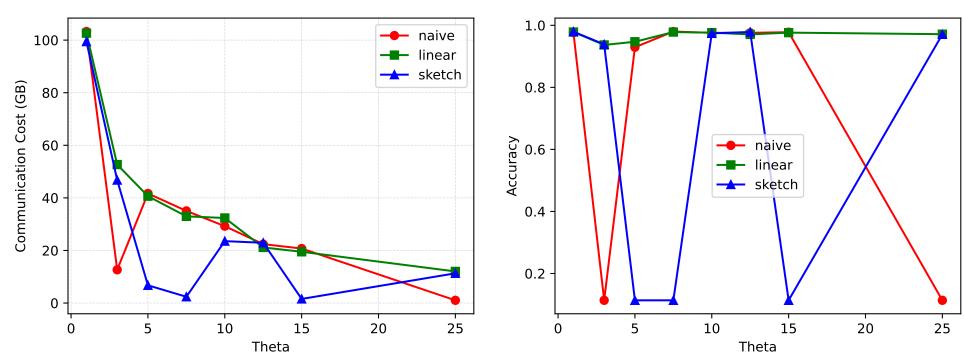
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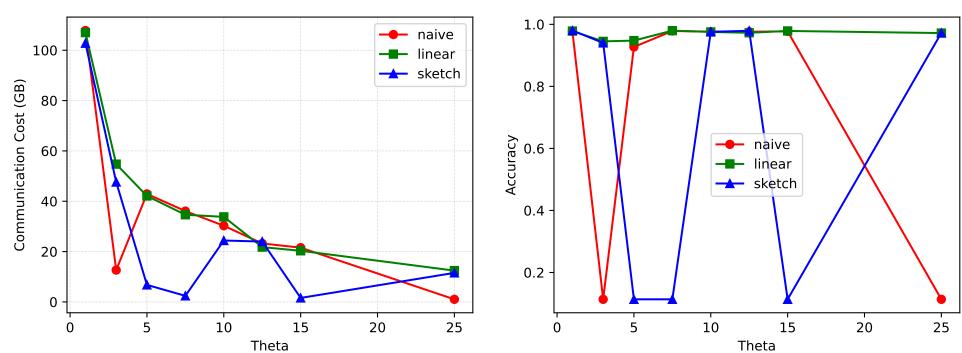
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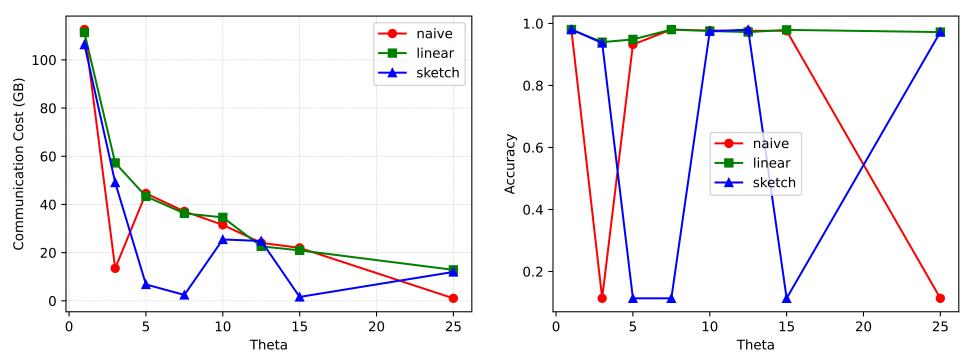
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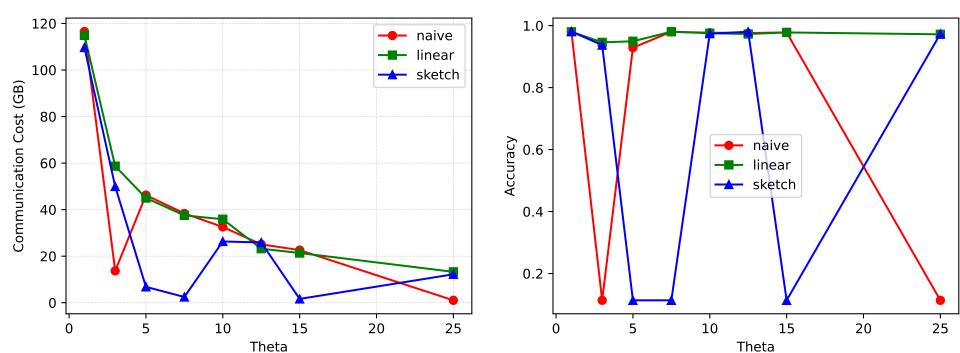
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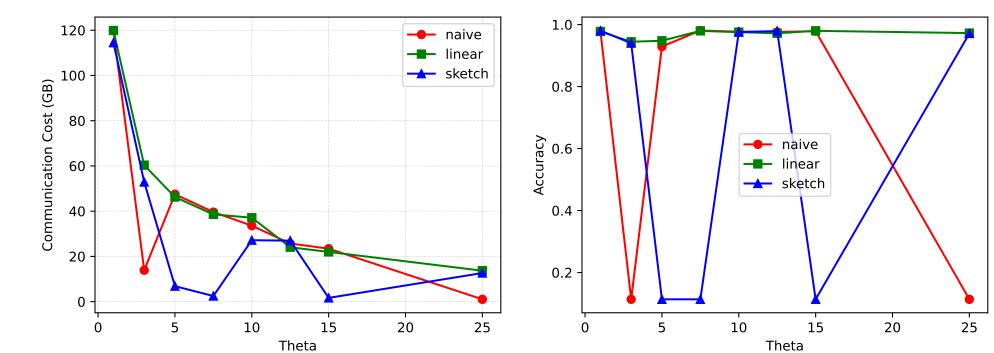
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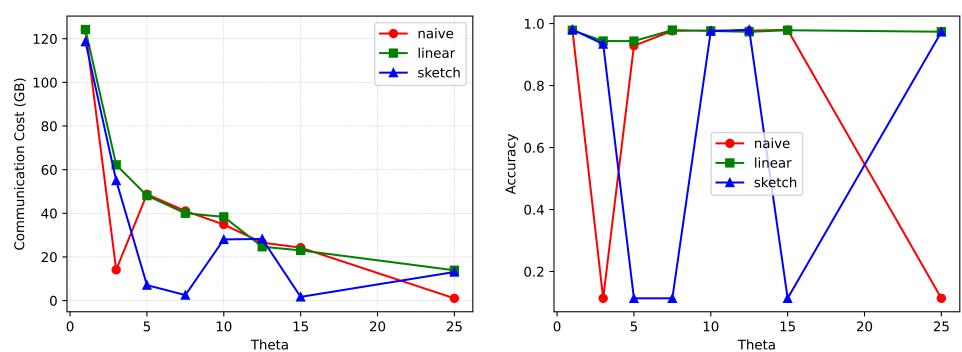
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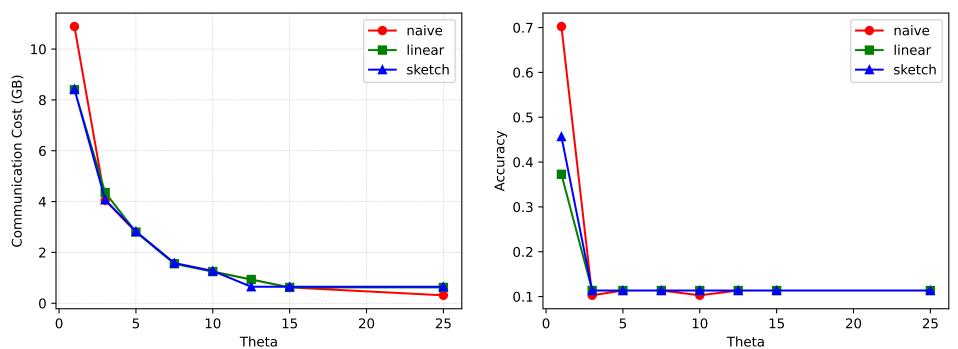
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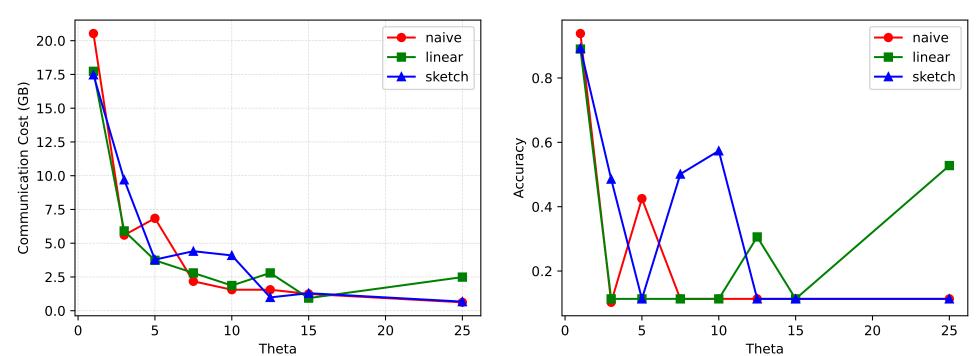
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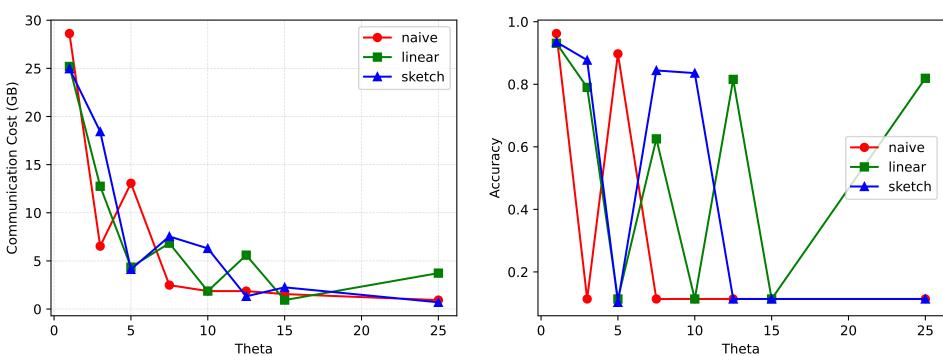
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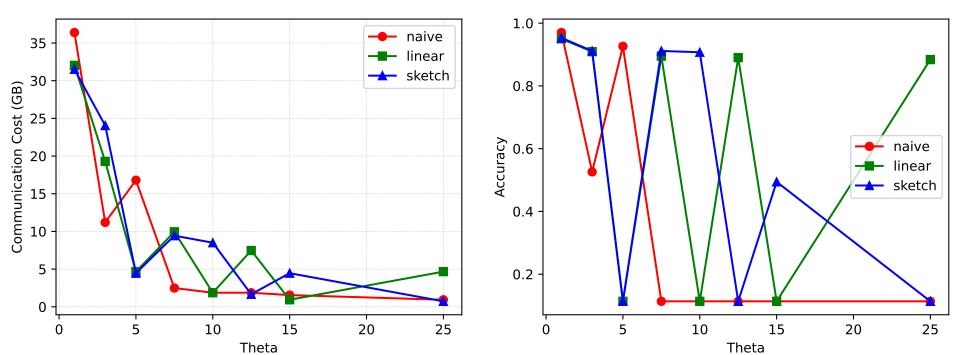
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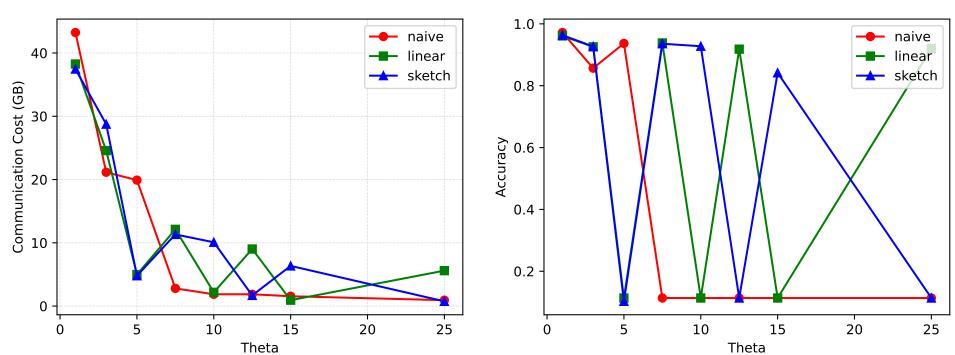
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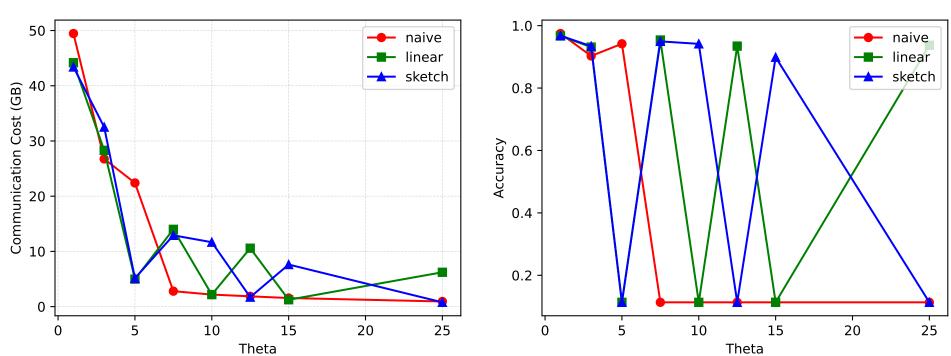
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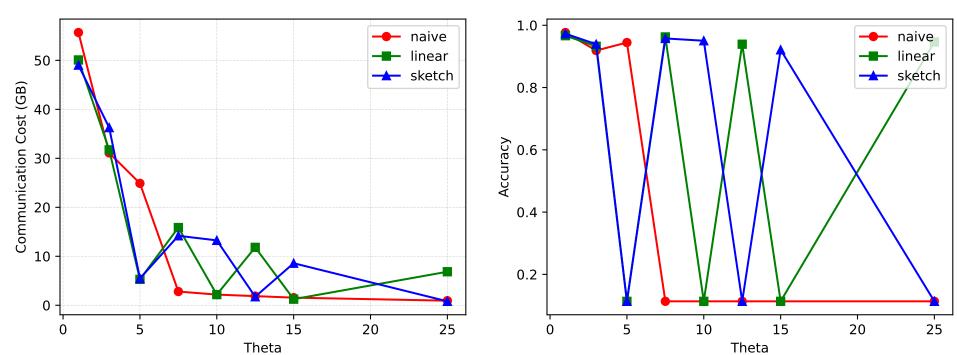
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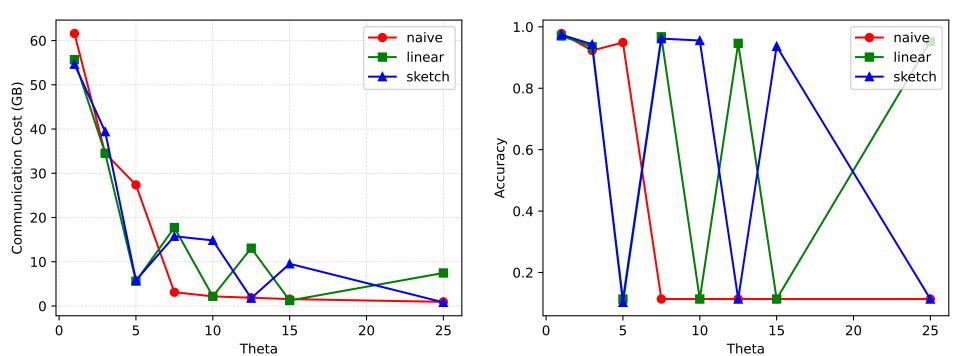
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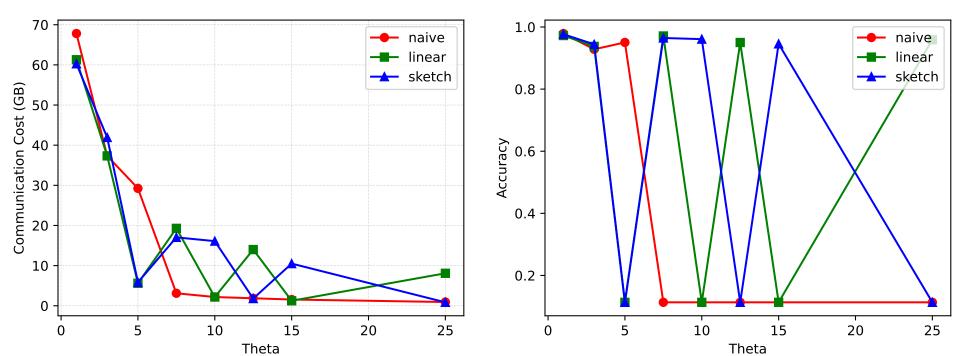
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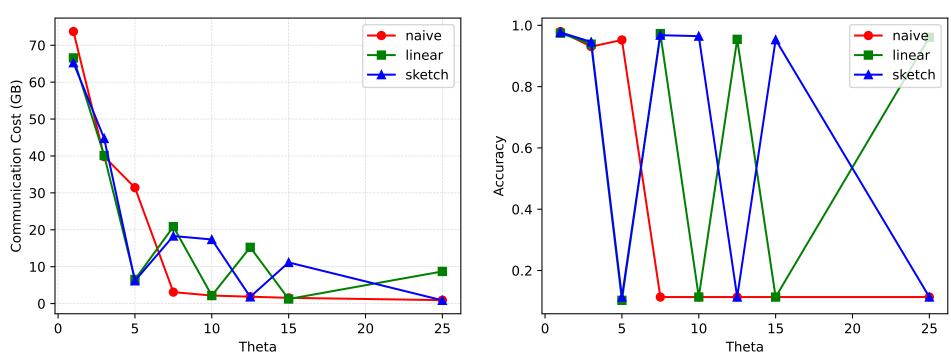
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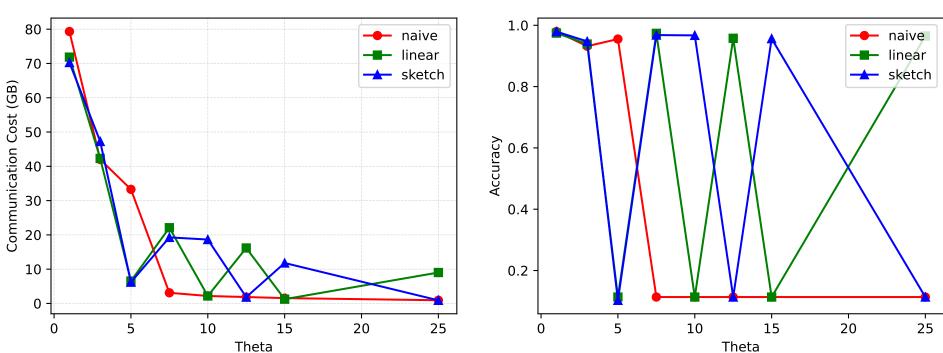
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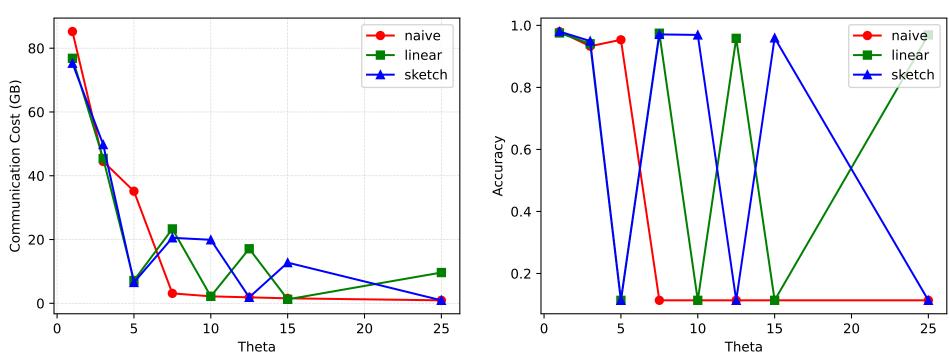
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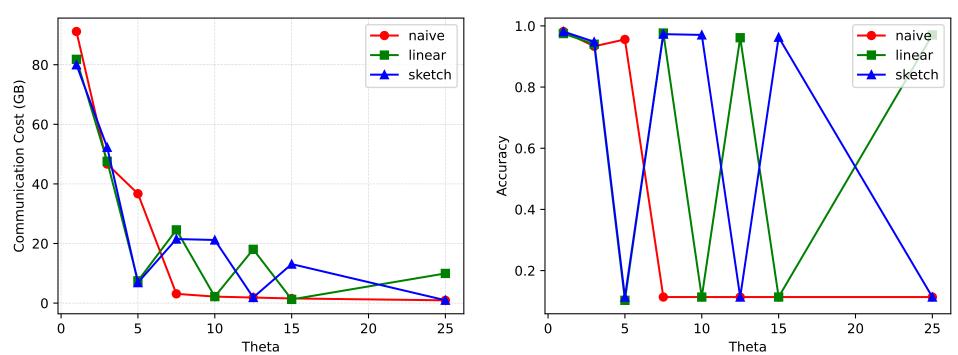
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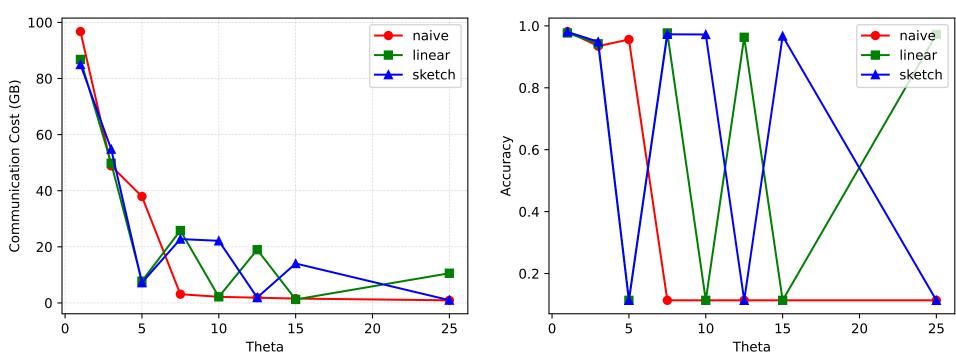
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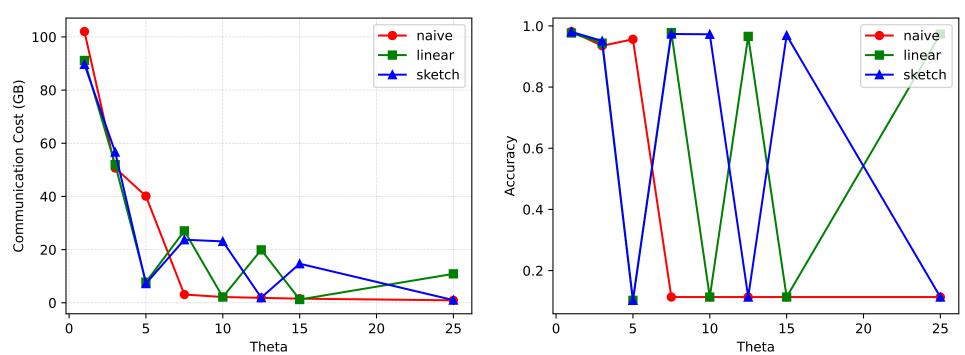
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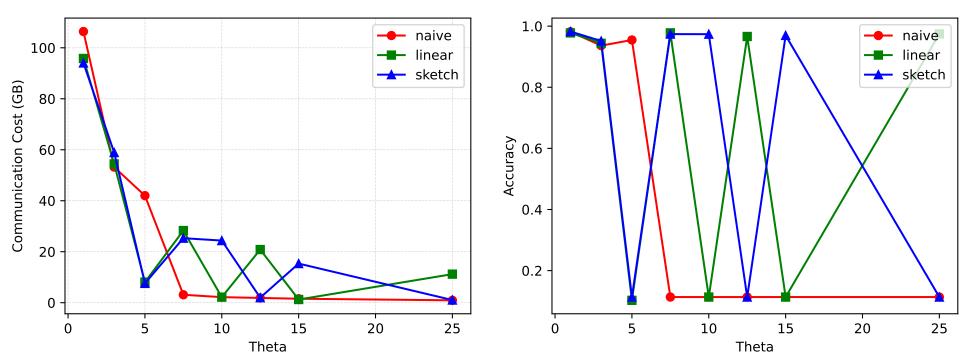
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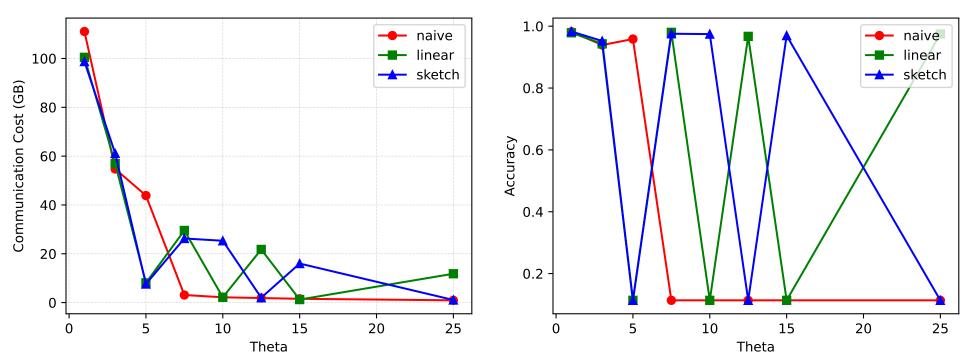
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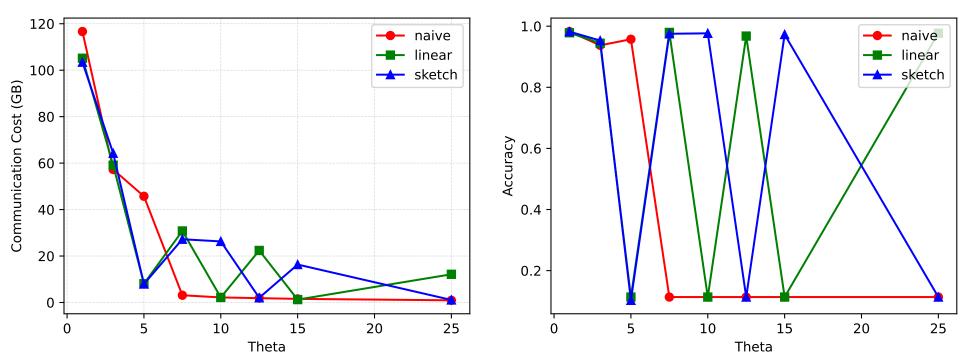
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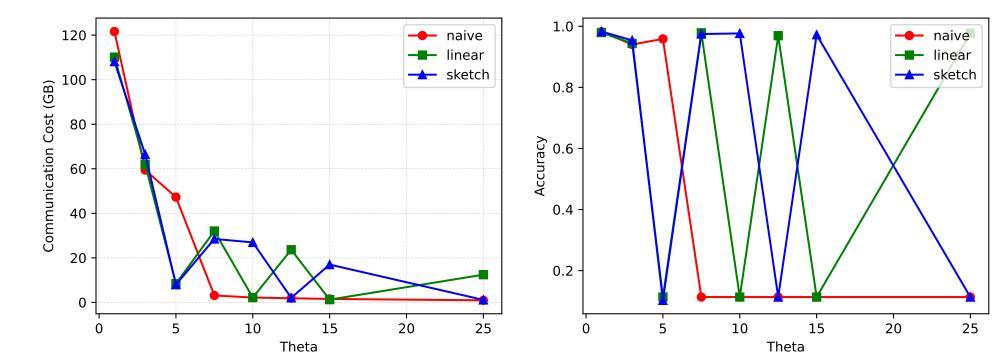
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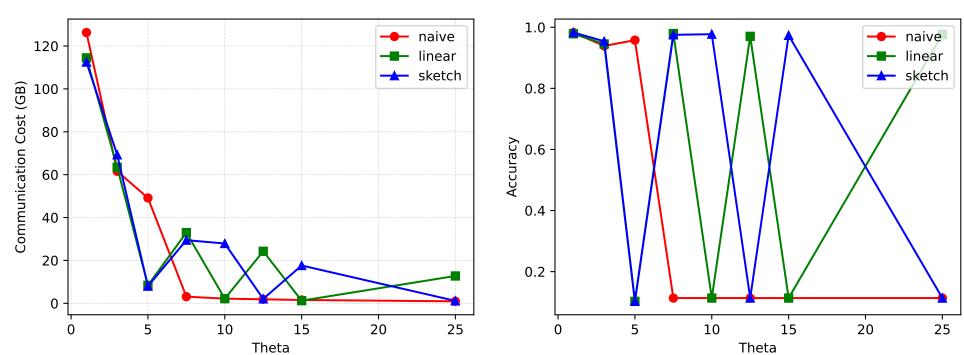
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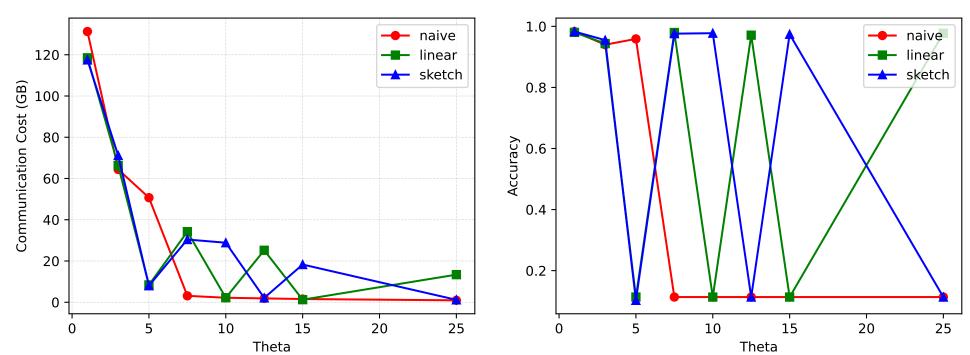
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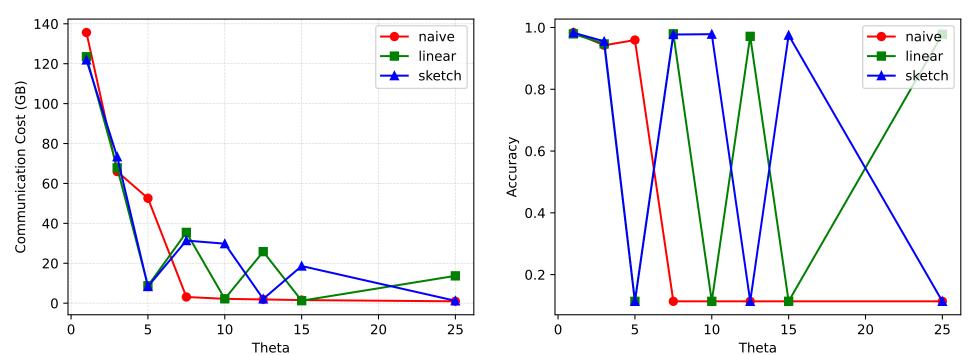
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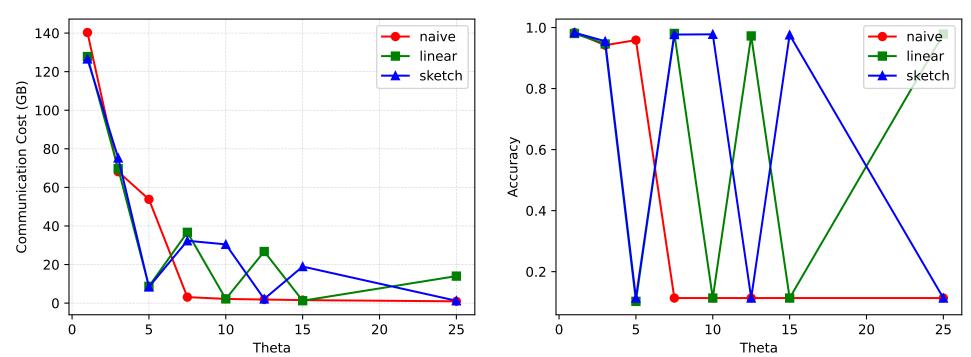
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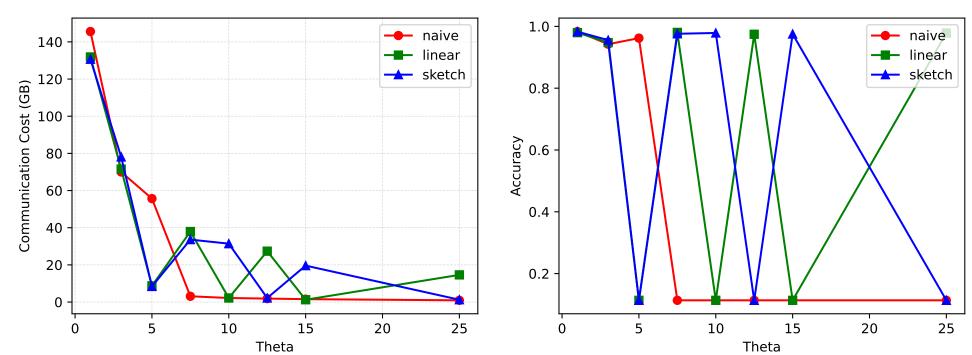
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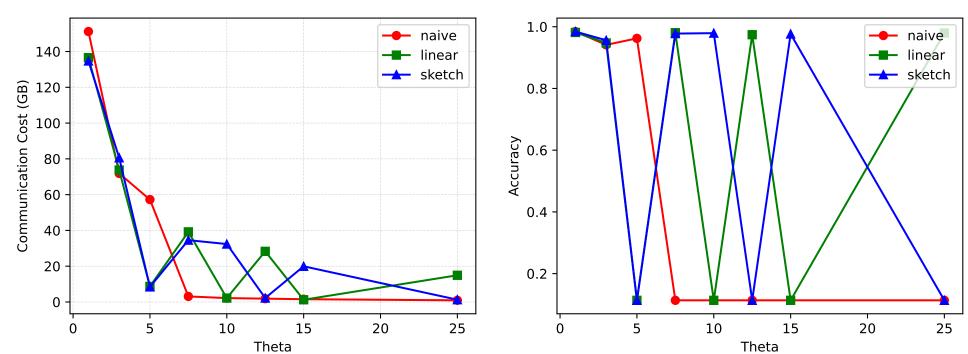
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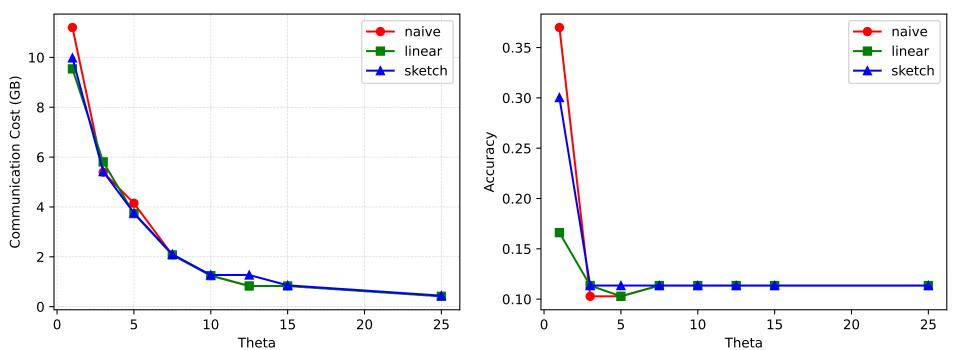
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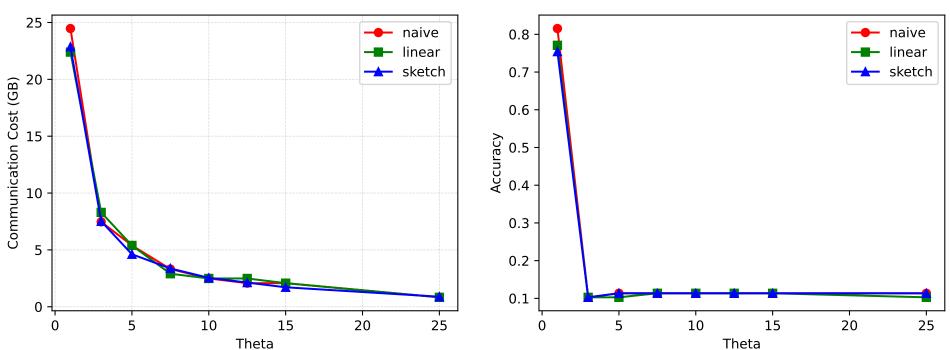
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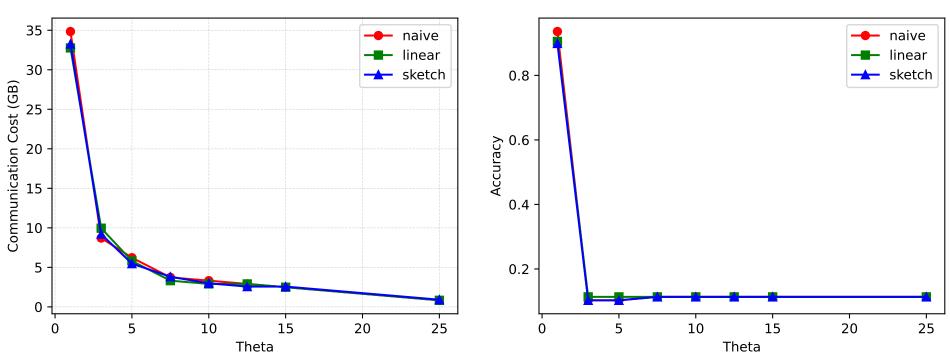
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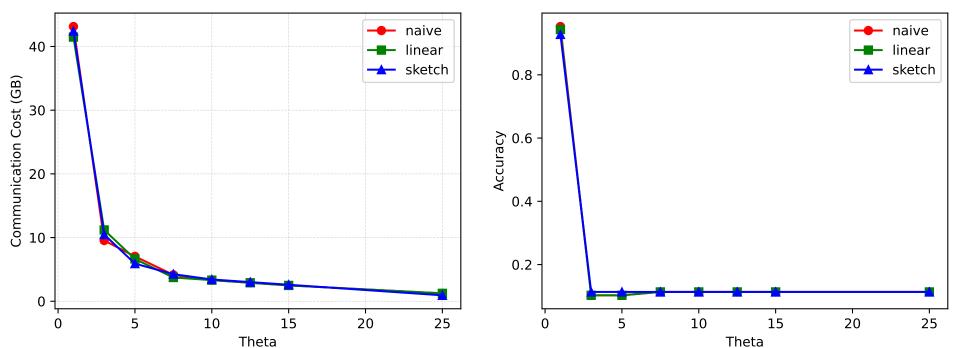
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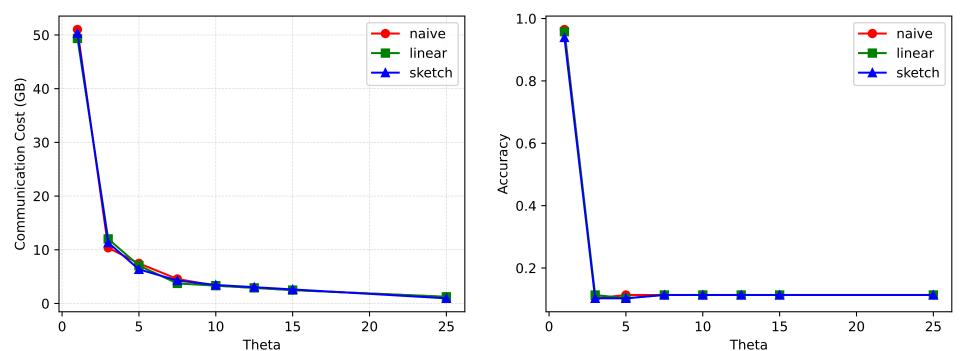
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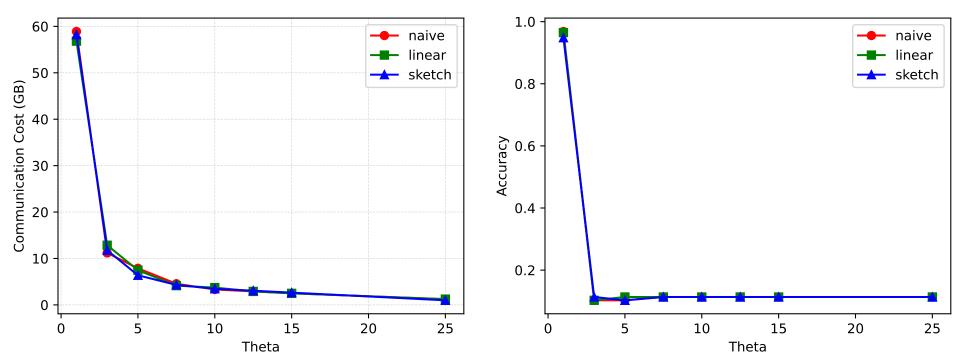
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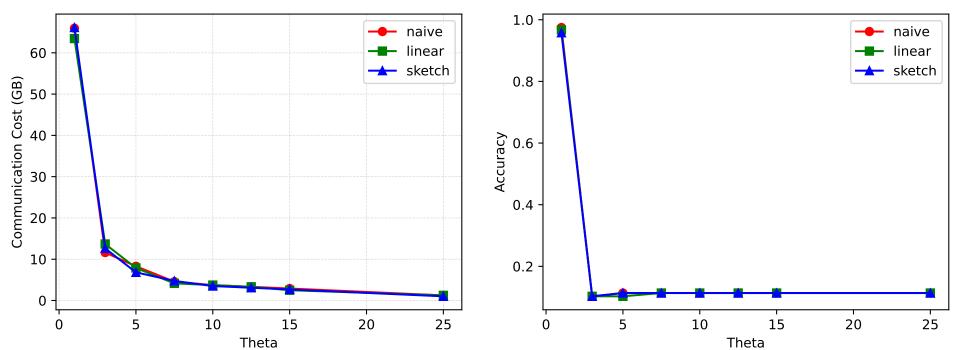
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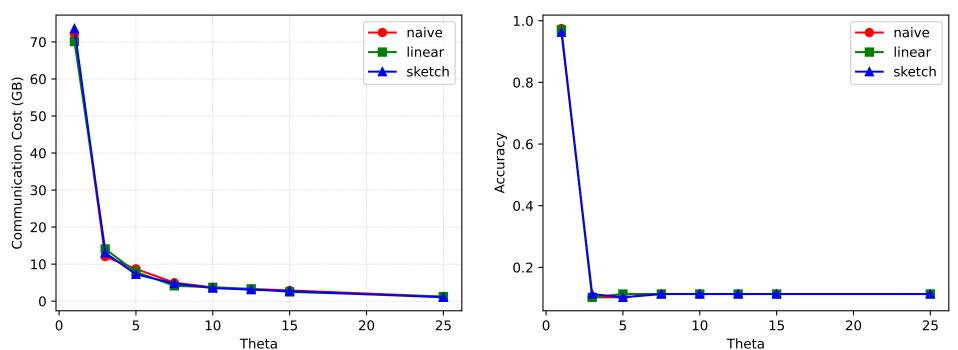
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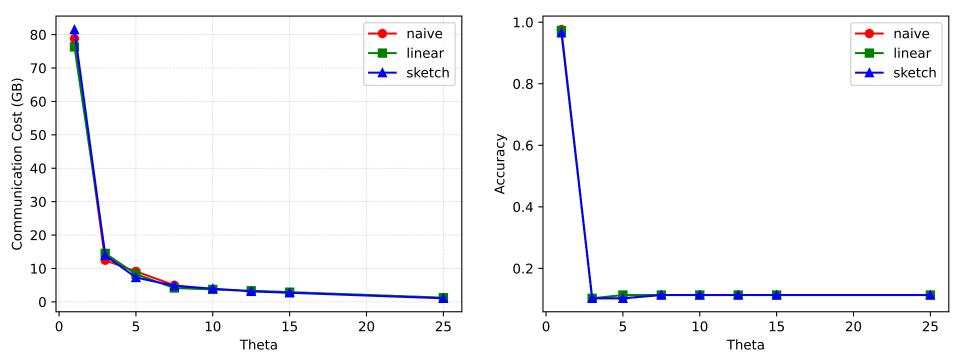
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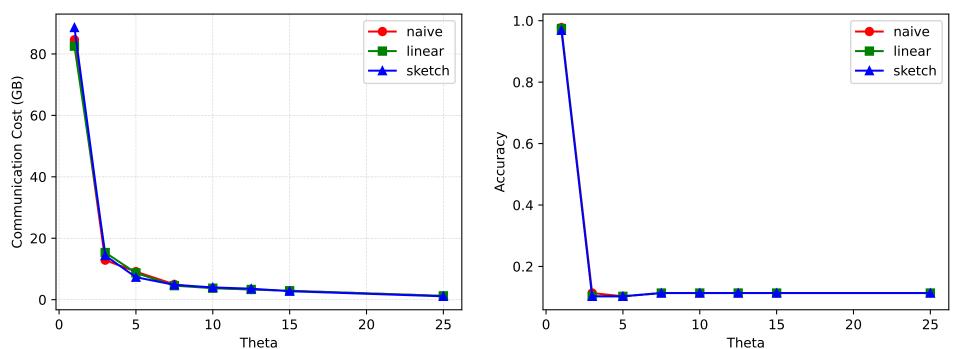
Clients: 20 , Epochs: 8 , Batch Size: 32 , Steps per RTC check: 1



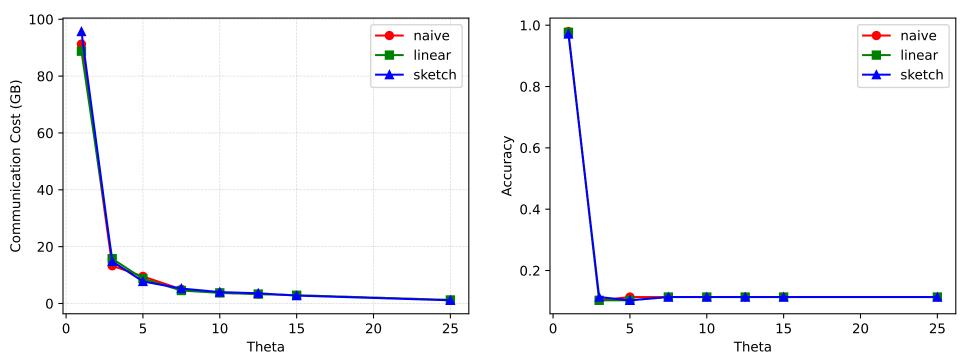
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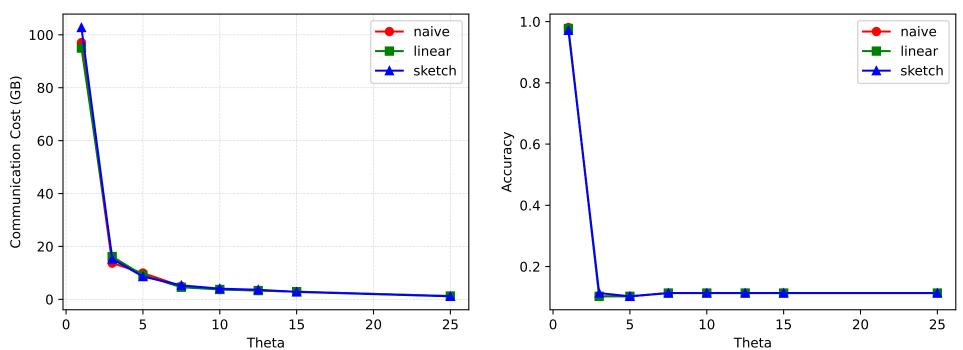
Clients: 20 , Epochs: 10 , Batch Size: 32 , Steps per RTC check: 1



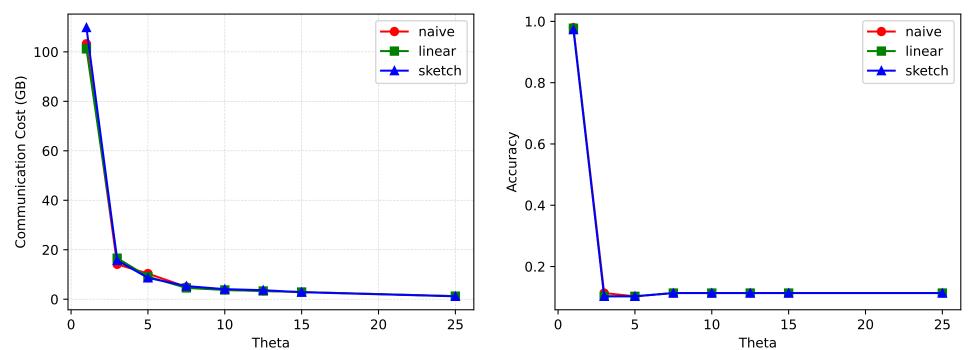
Clients: 20 , Epochs: 11 , Batch Size: 32 , Steps per RTC check: 1



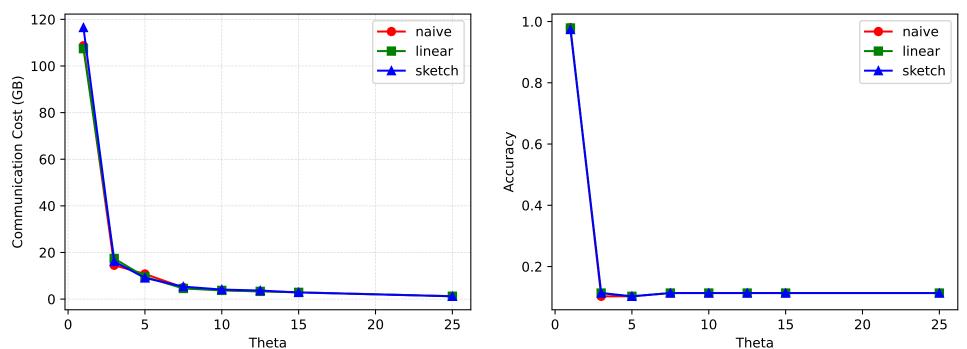
Clients: 20 , Epochs: 12 , Batch Size: 32 , Steps per RTC check: 1



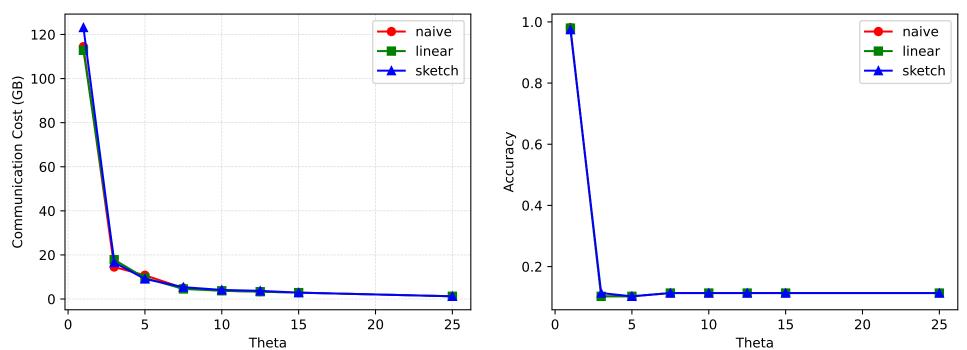
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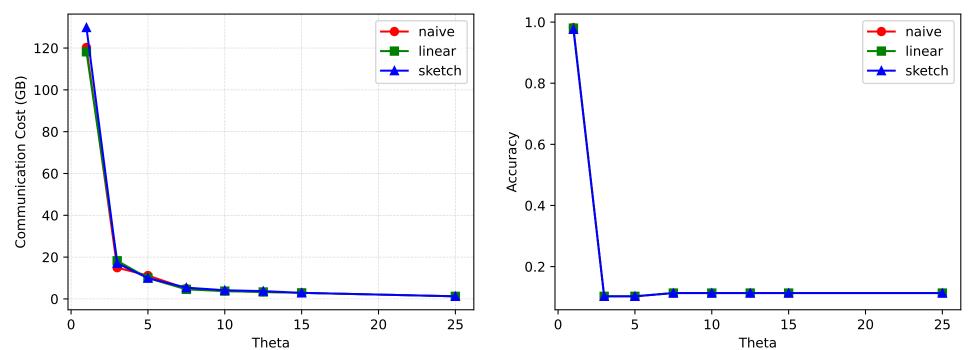
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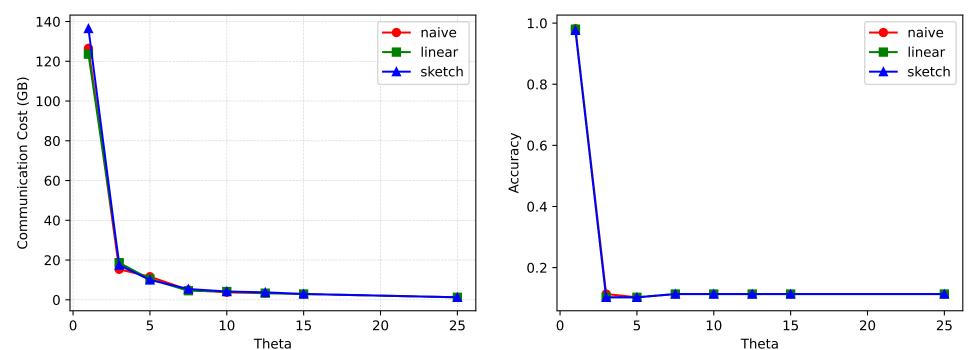
Clients: 20 , Epochs: 15 , Batch Size: 32 , Steps per RTC check: 1



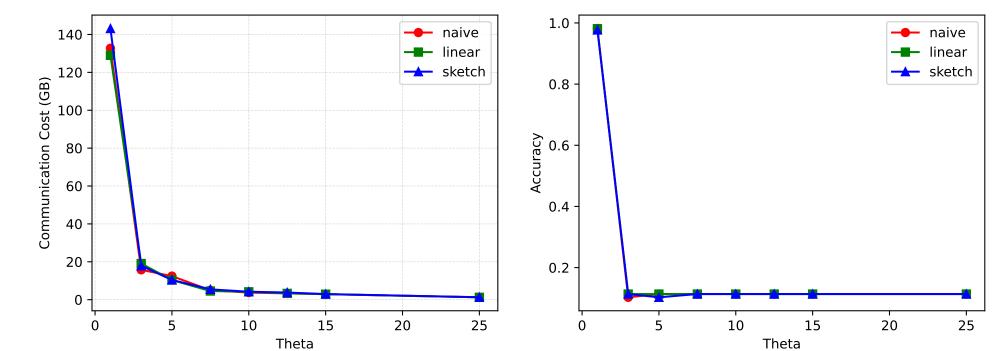
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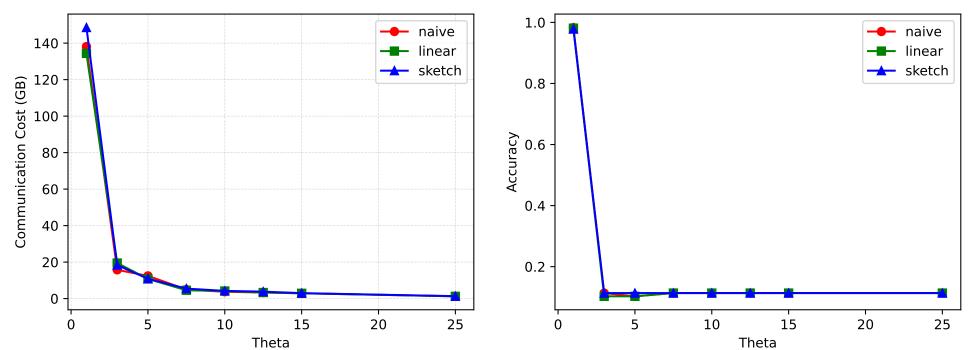
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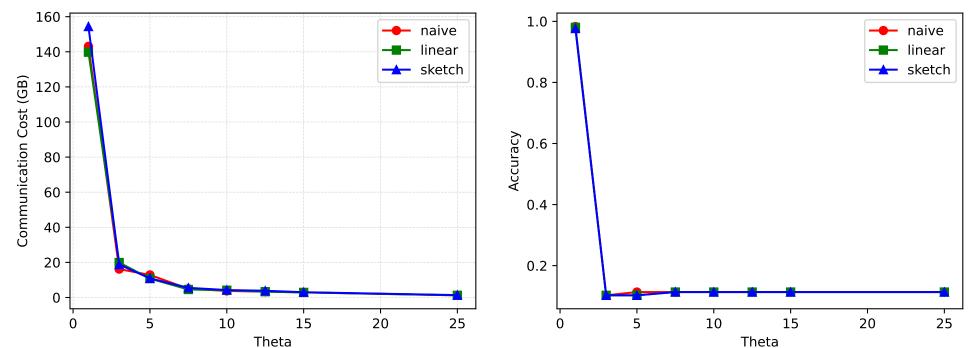
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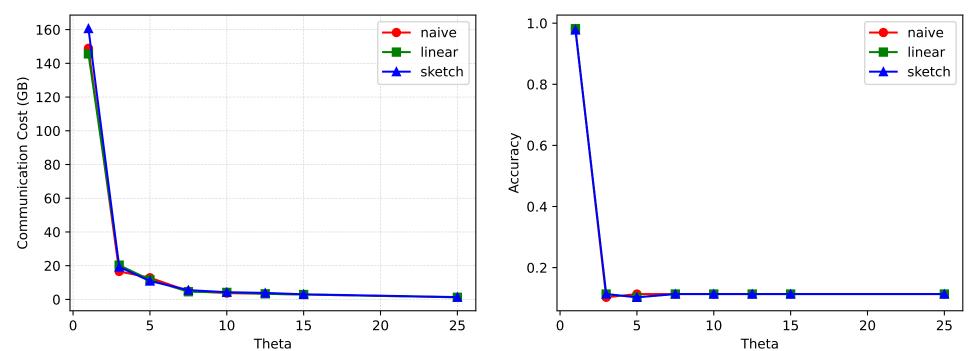
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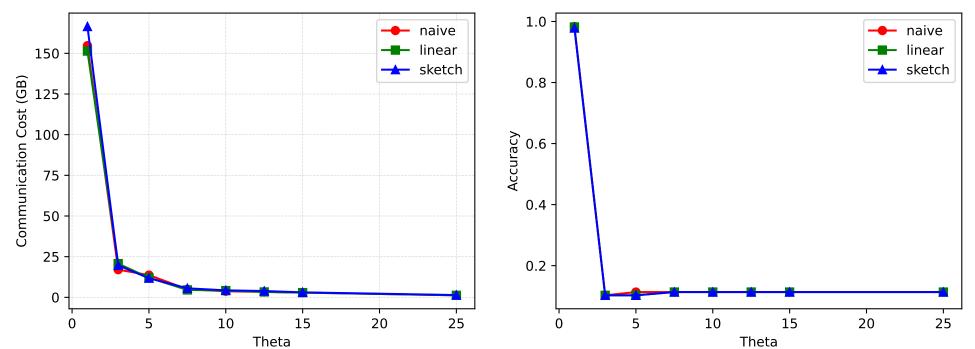
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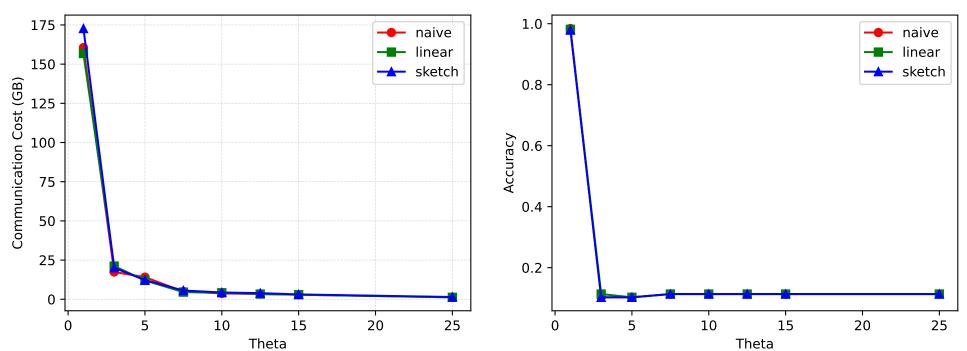
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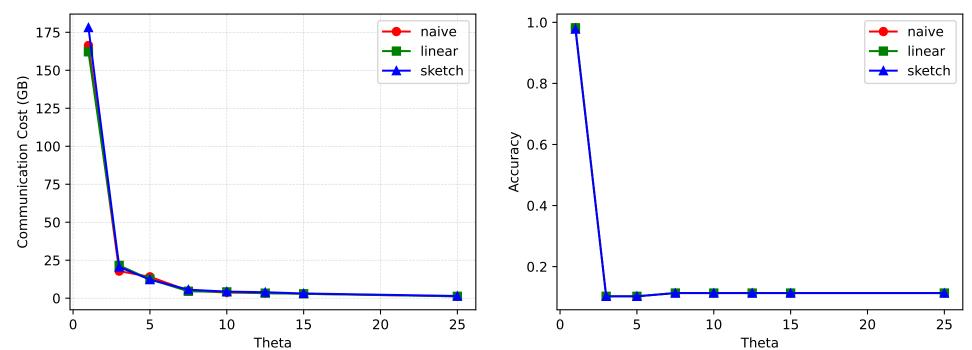
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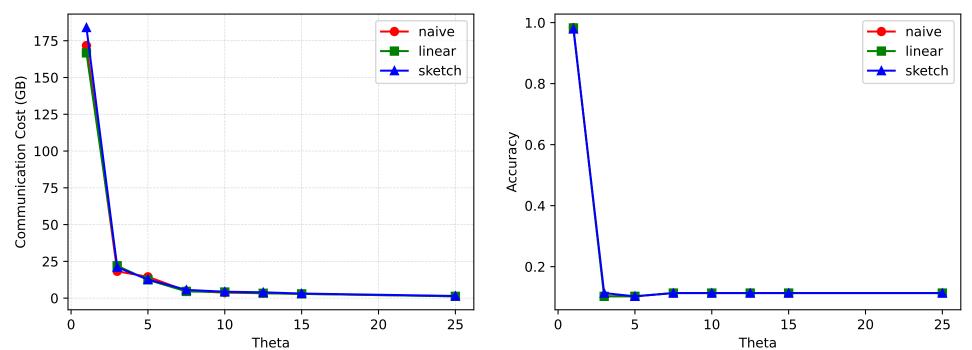
Clients: 20 , Epochs: 23 , Batch Size: 32 , Steps per RTC check: 1



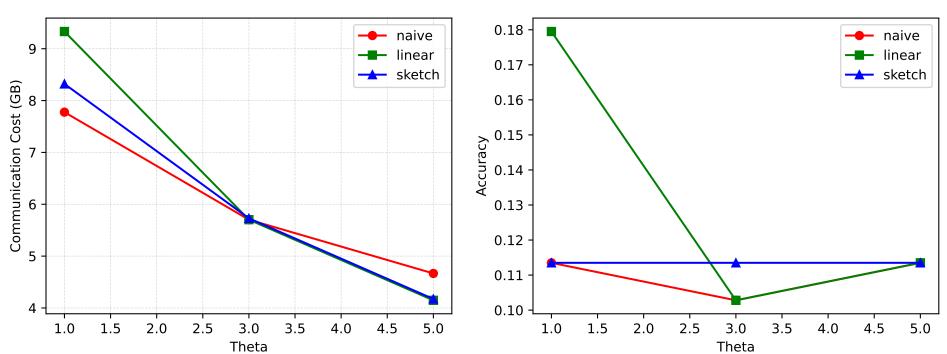
Clients: 20 , Epochs: 24 , Batch Size: 32 , Steps per RTC check: 1



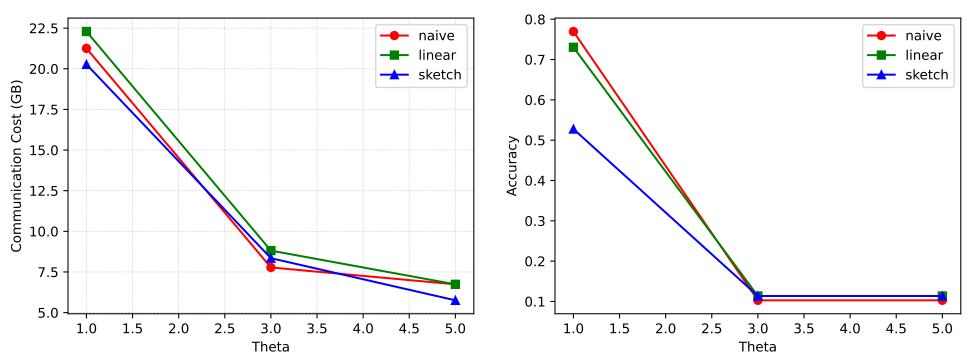
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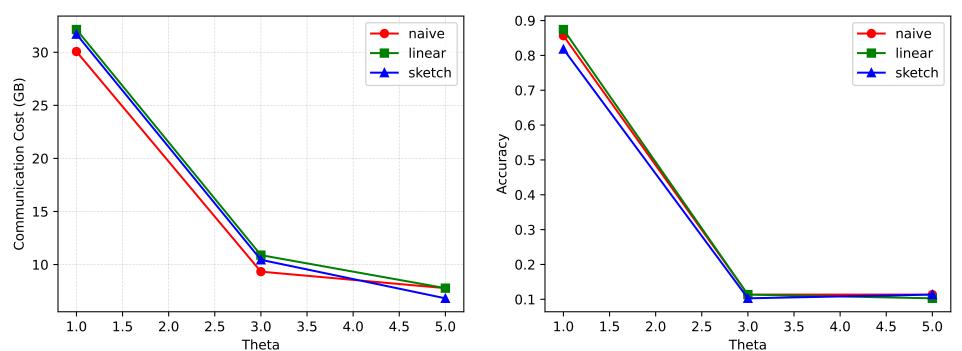
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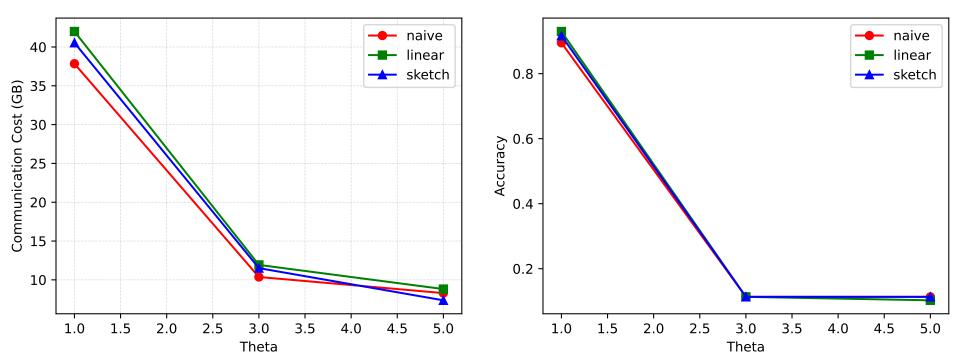
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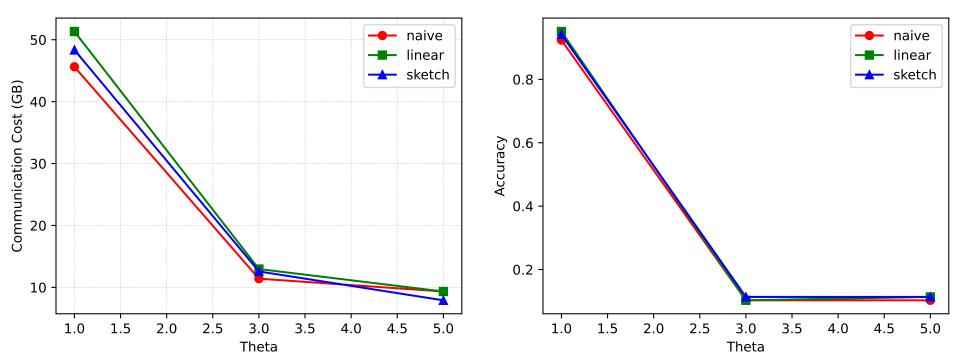
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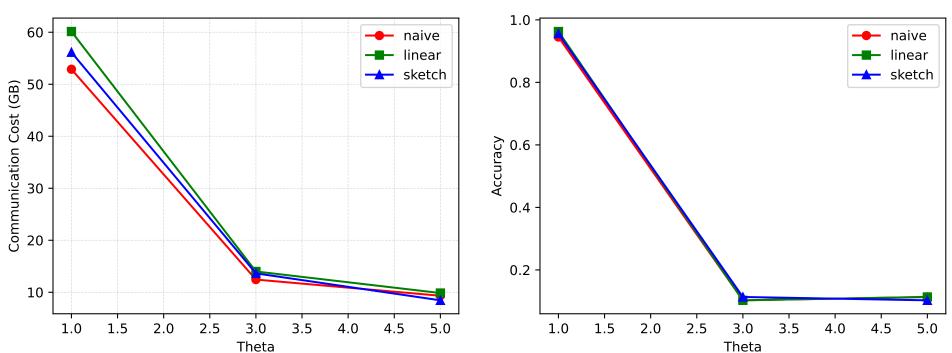
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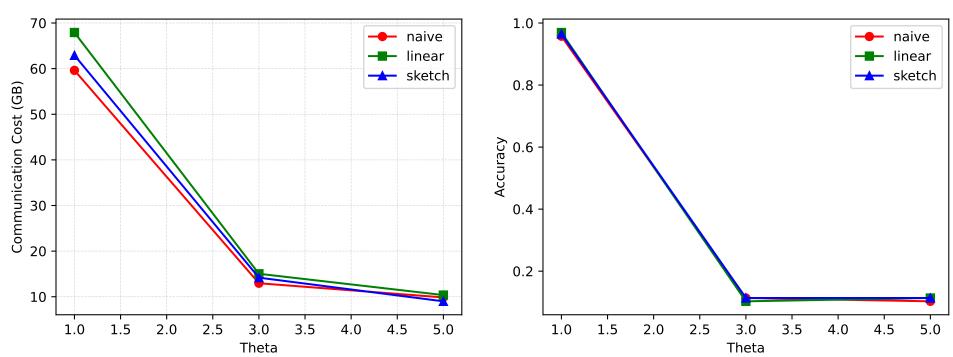
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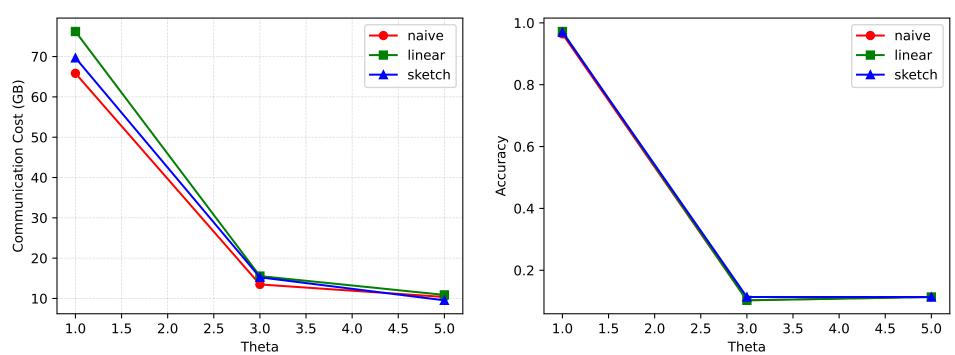
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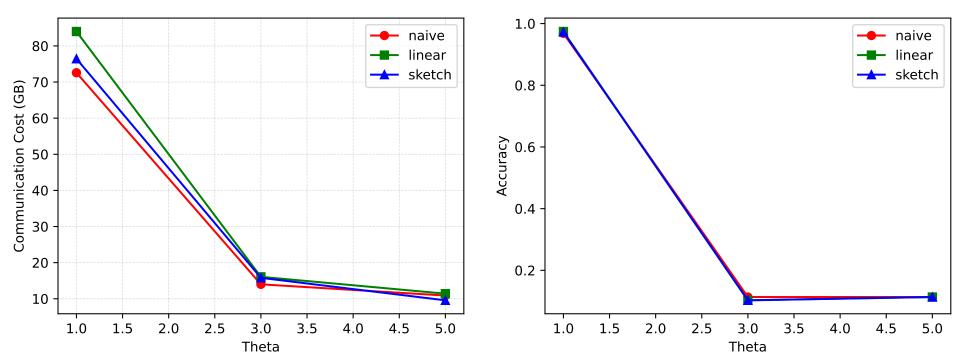
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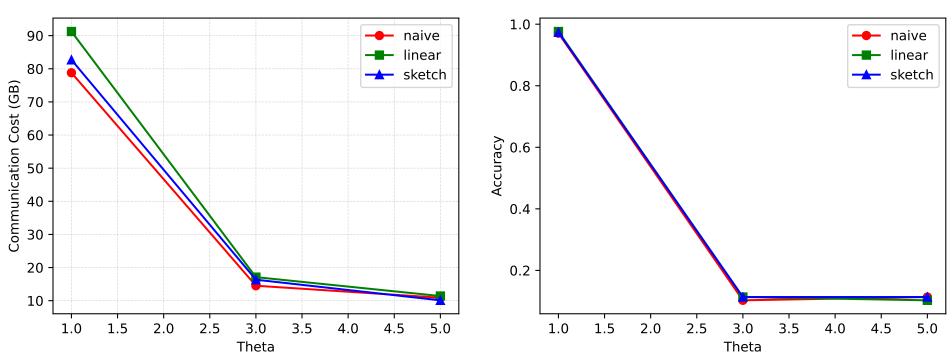
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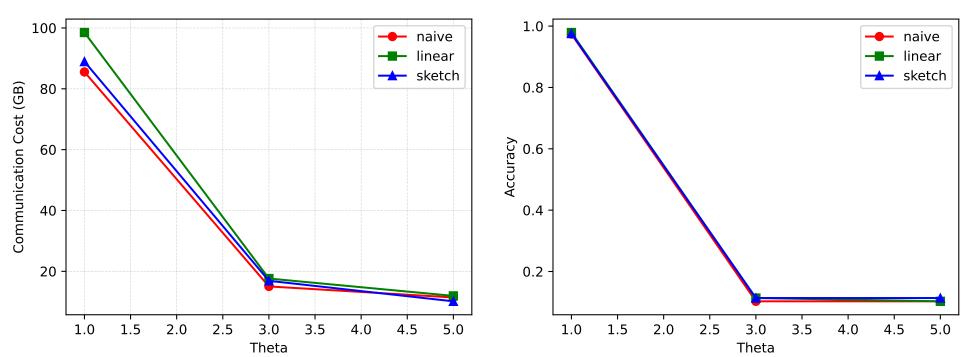
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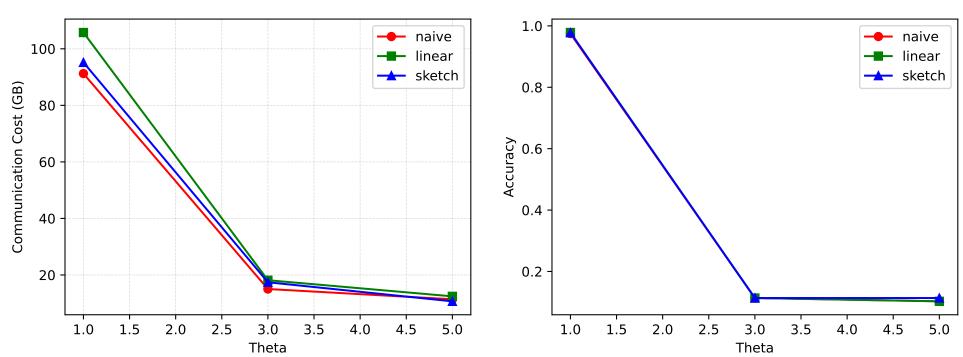
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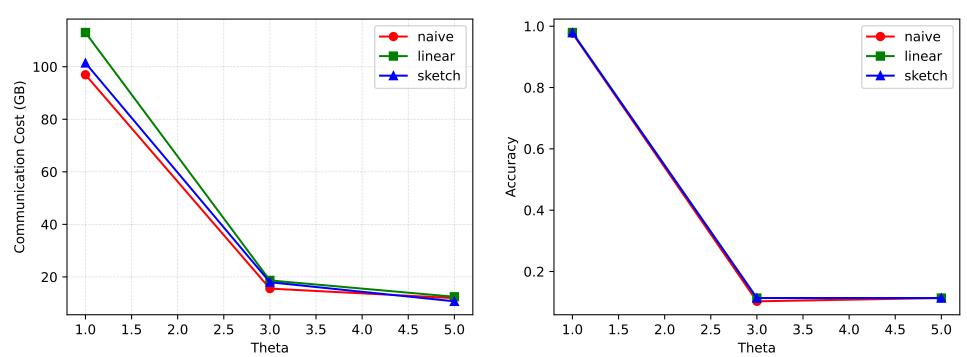
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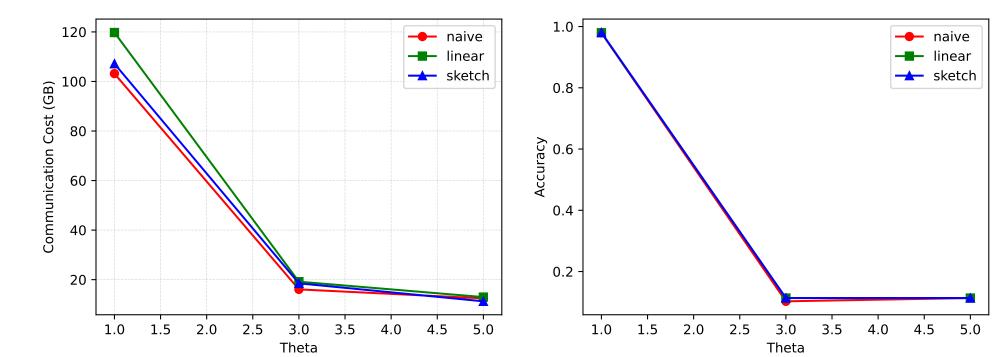
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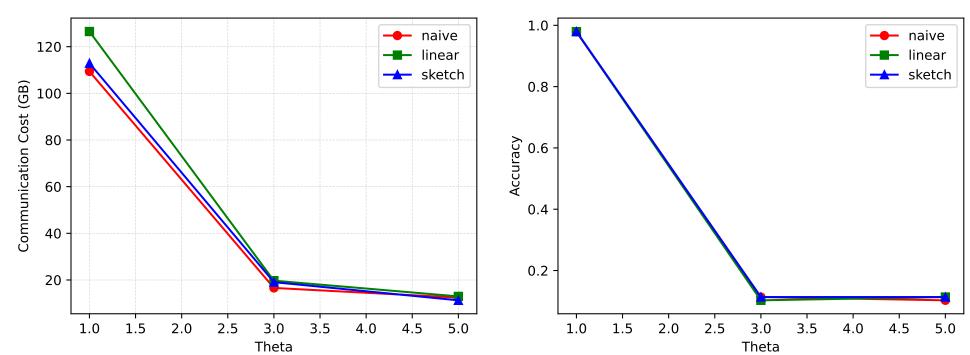
Clients: 25 , Epochs: 13 , Batch Size: 32 , Steps per RTC check: 1



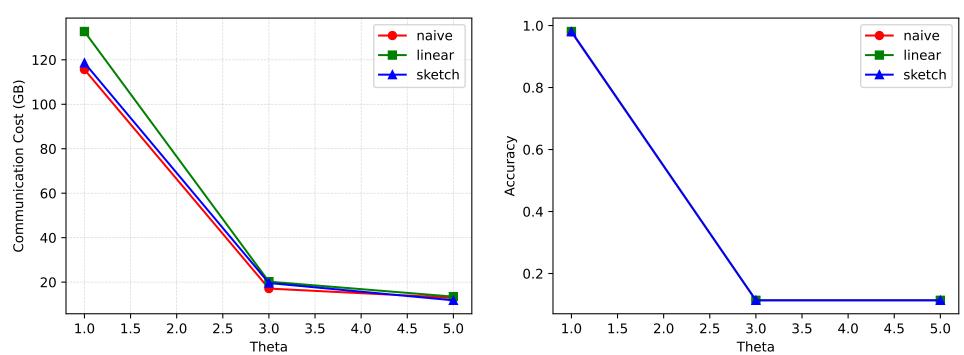
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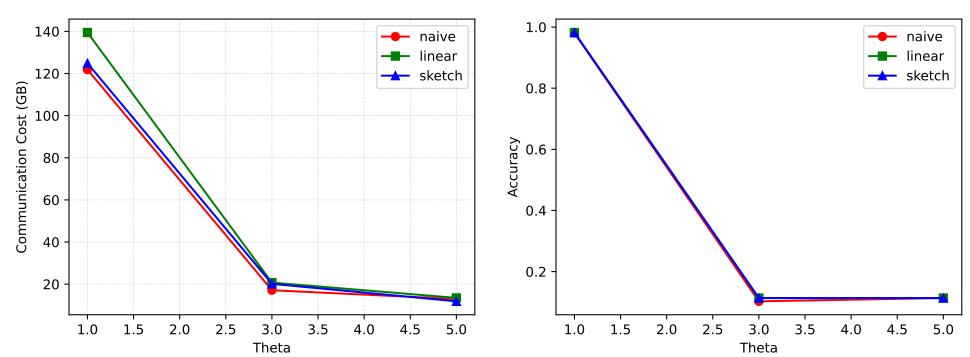
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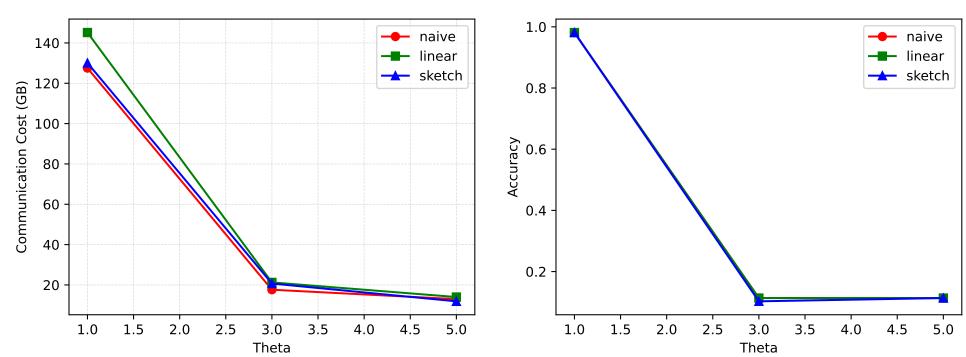
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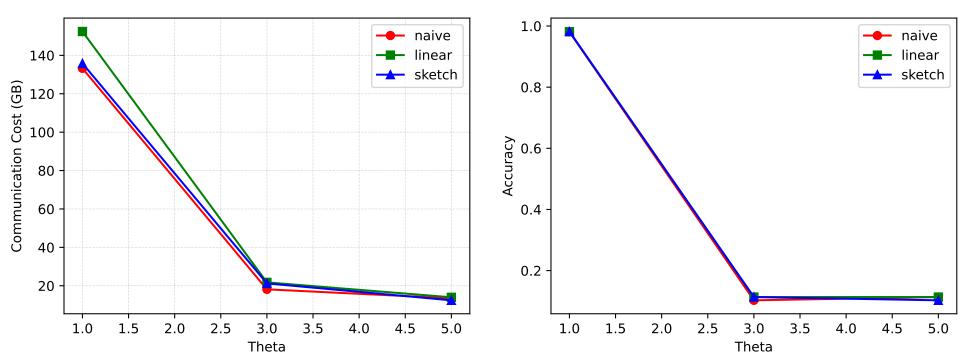
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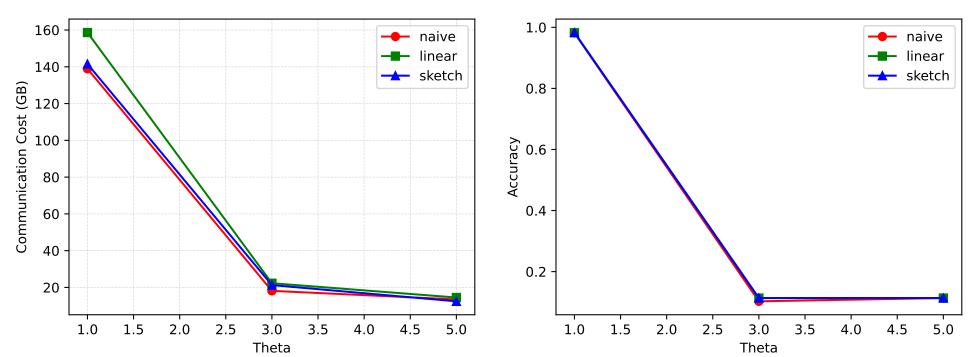
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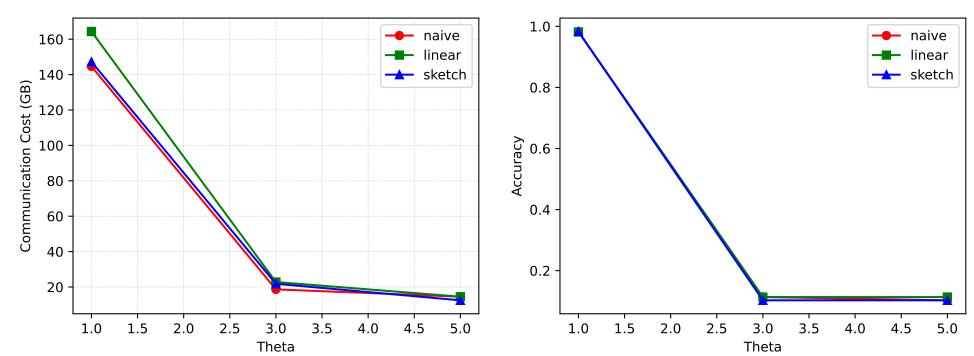
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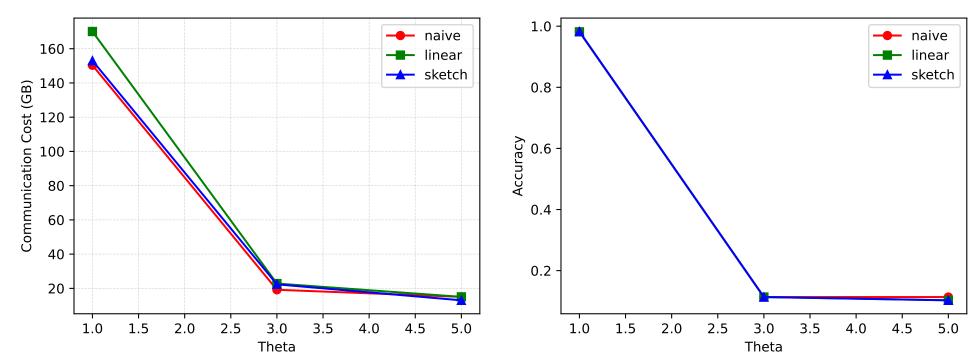
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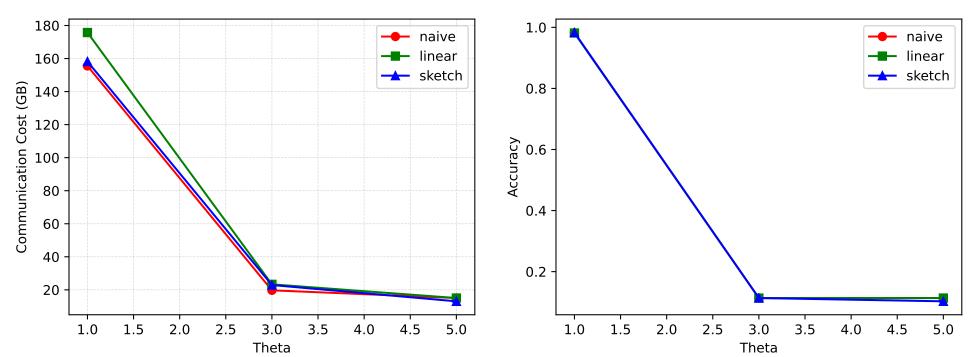
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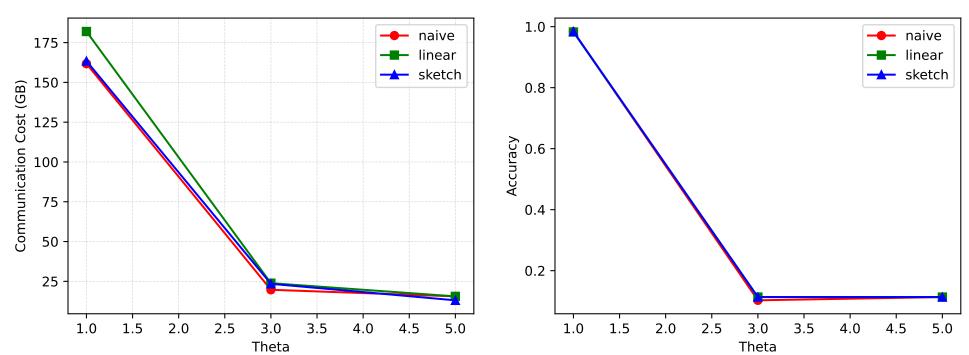
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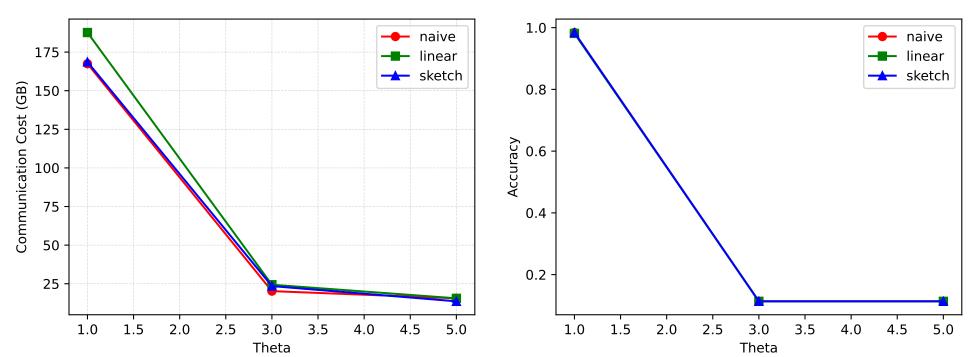
Clients: 25 , Epochs: 23 , Batch Size: 32 , Steps per RTC check: 1



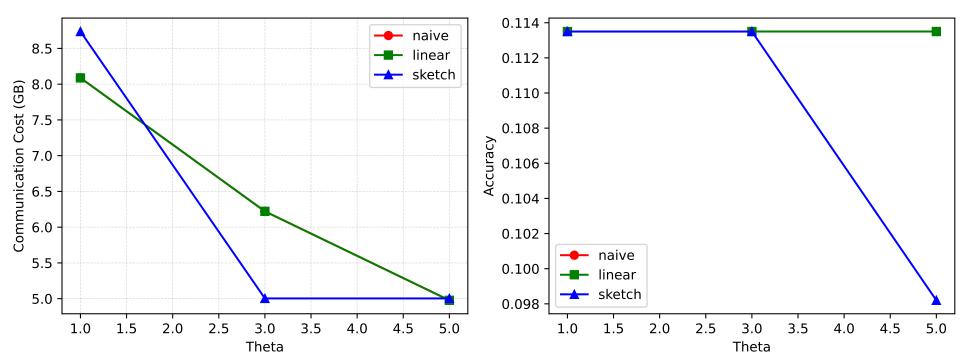
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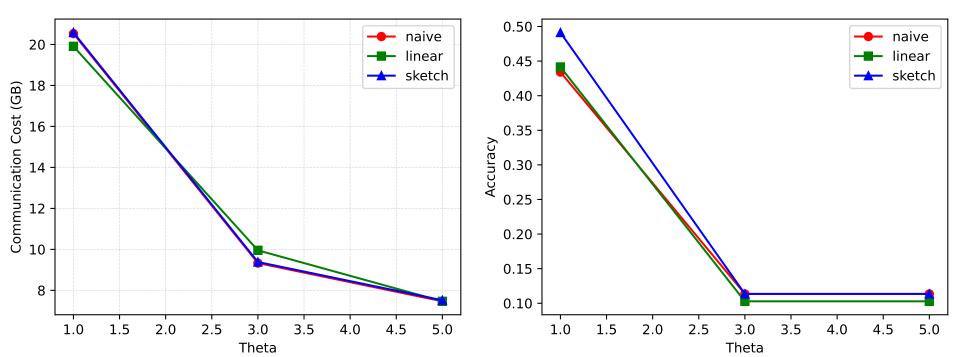
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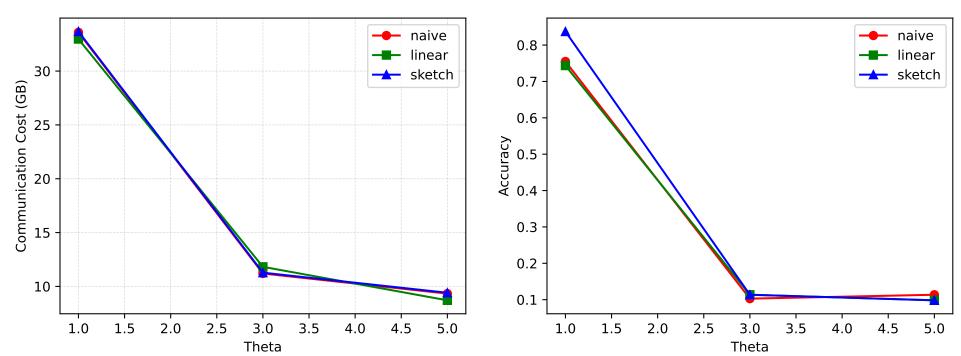
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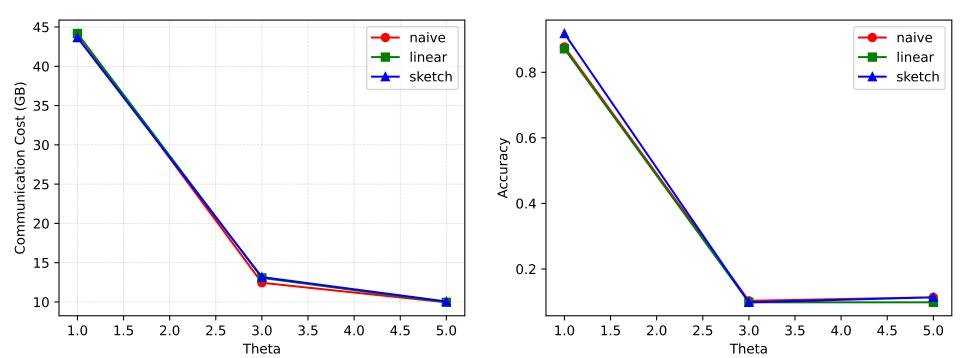
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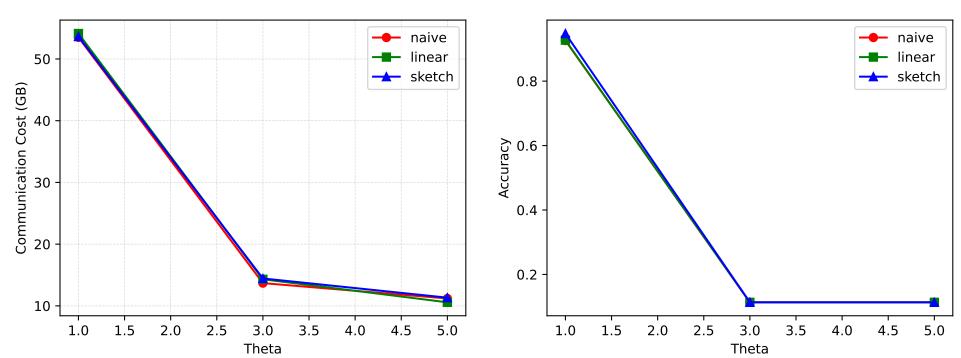
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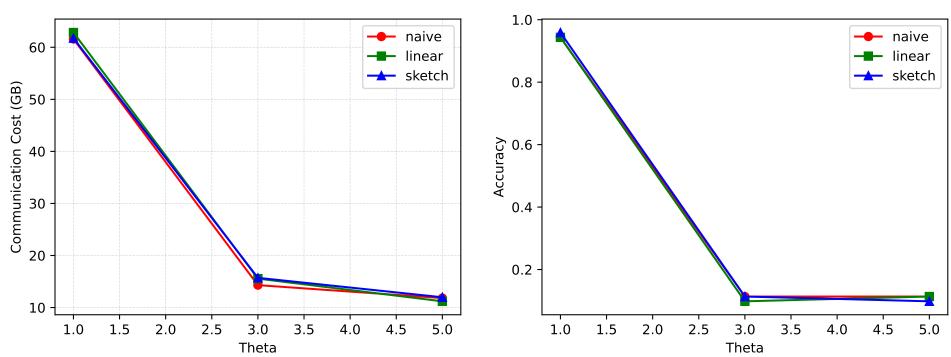
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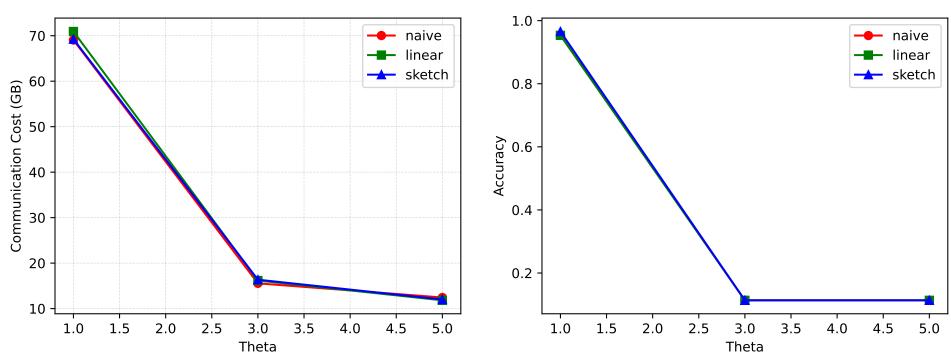
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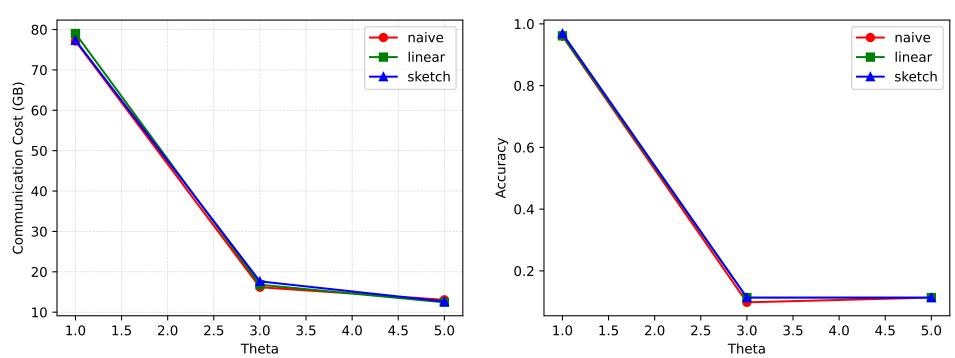
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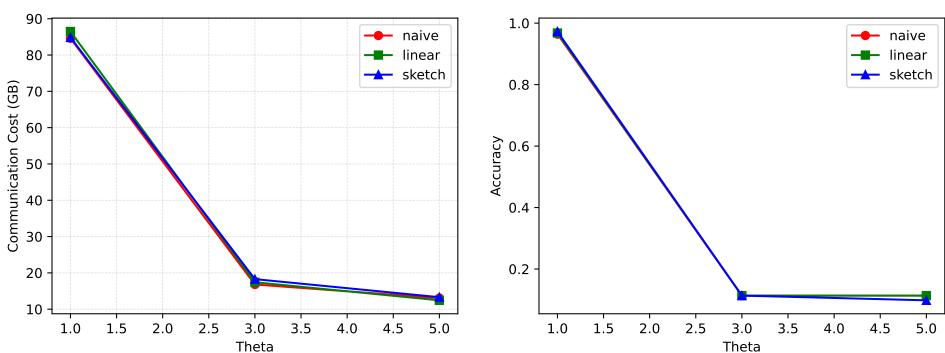
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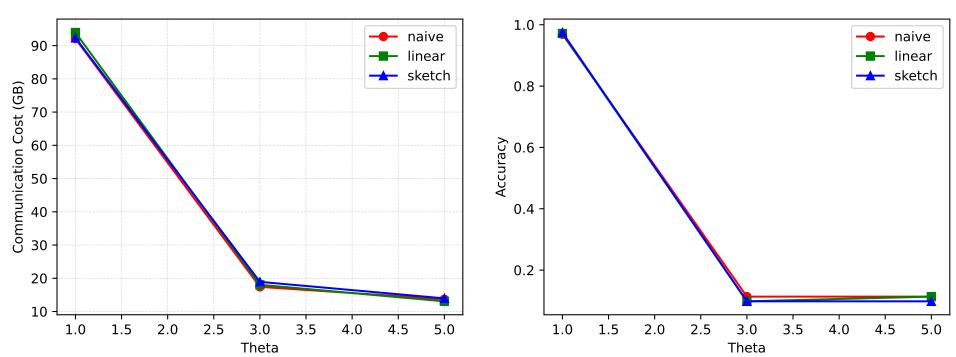
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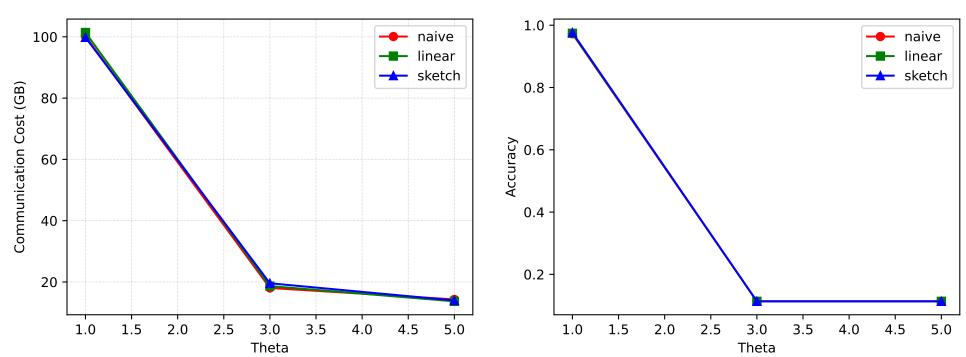
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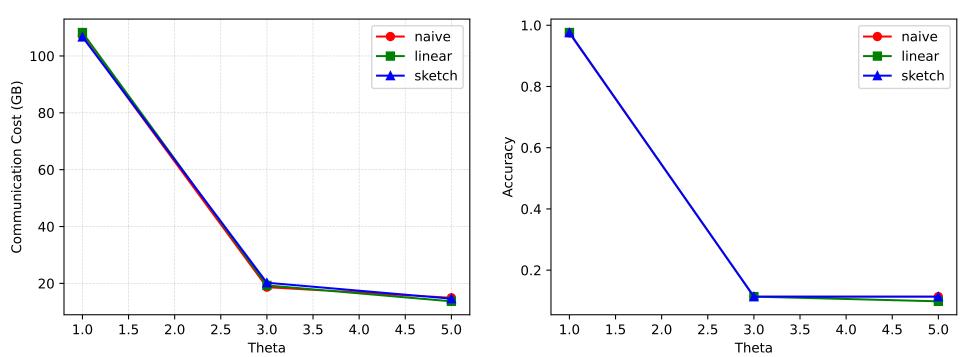
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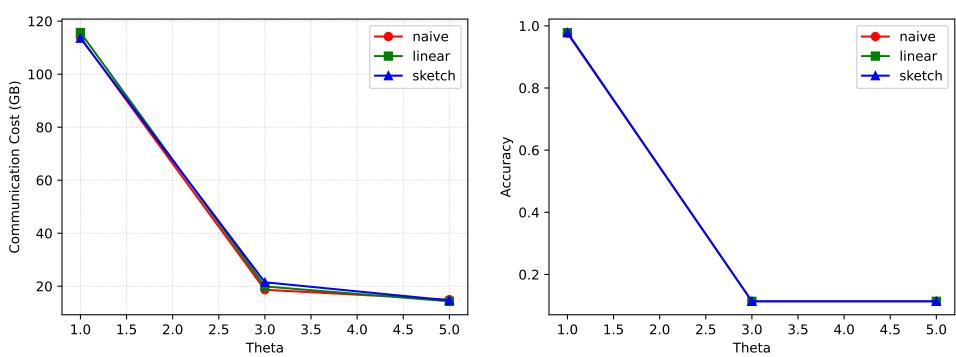
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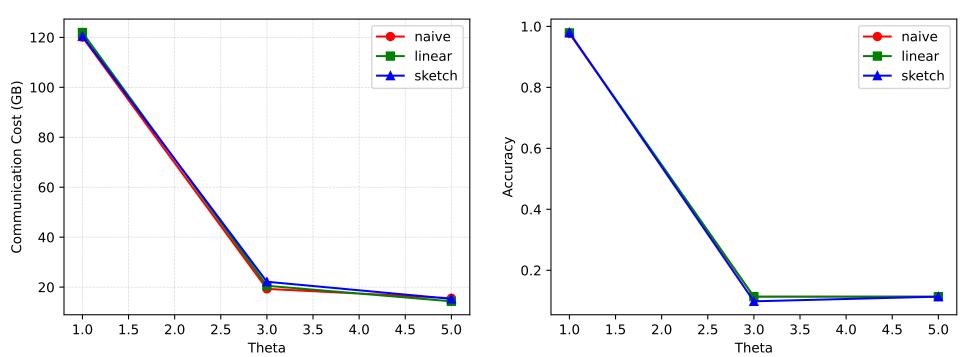
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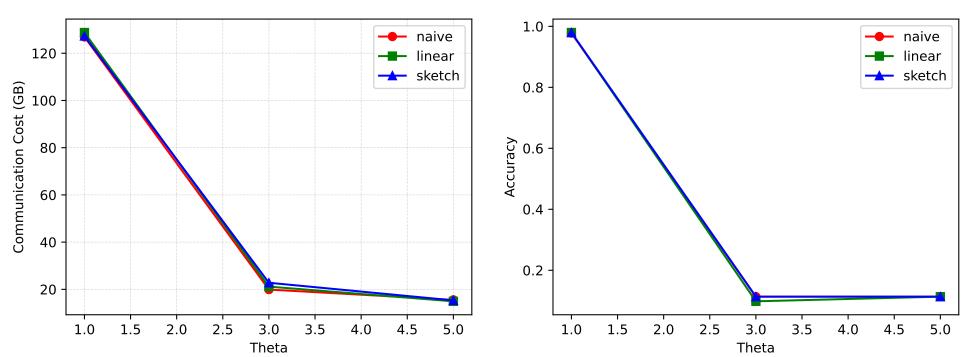
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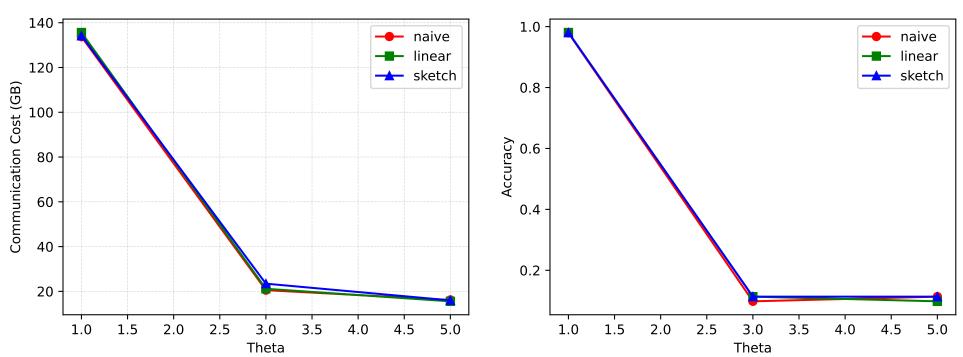
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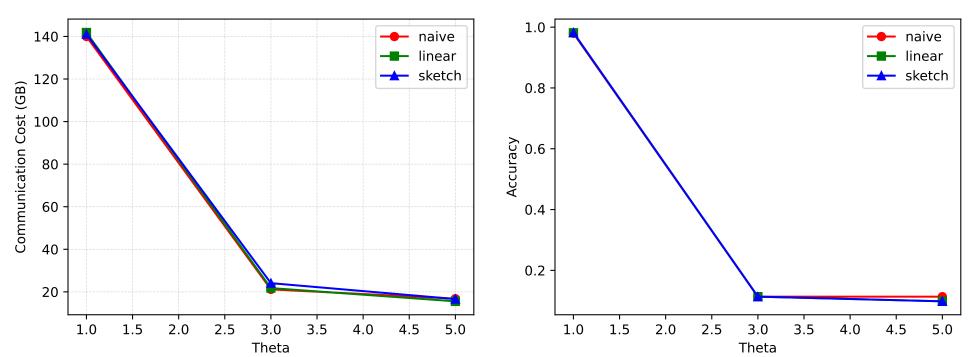
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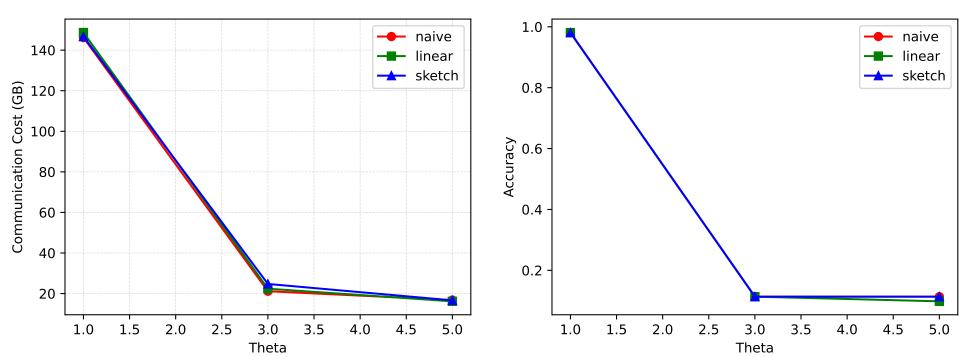
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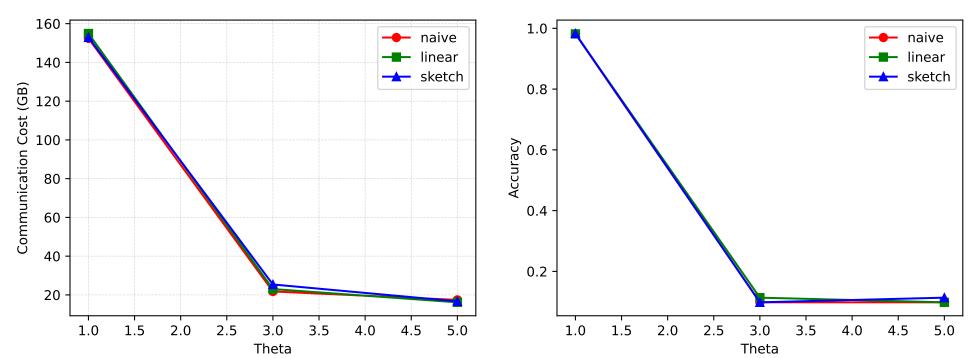
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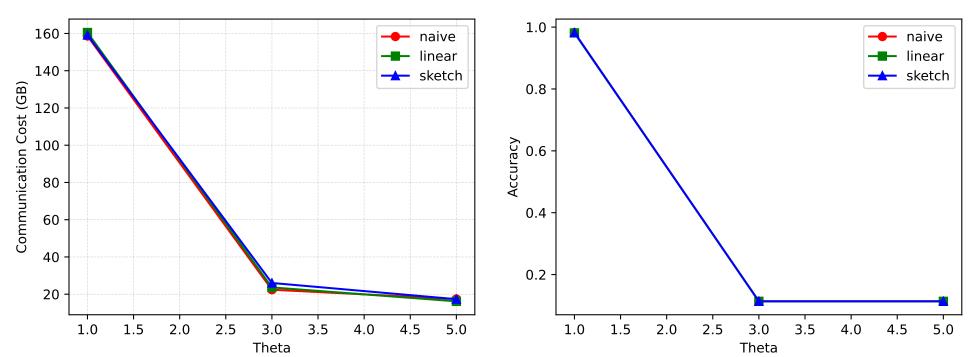
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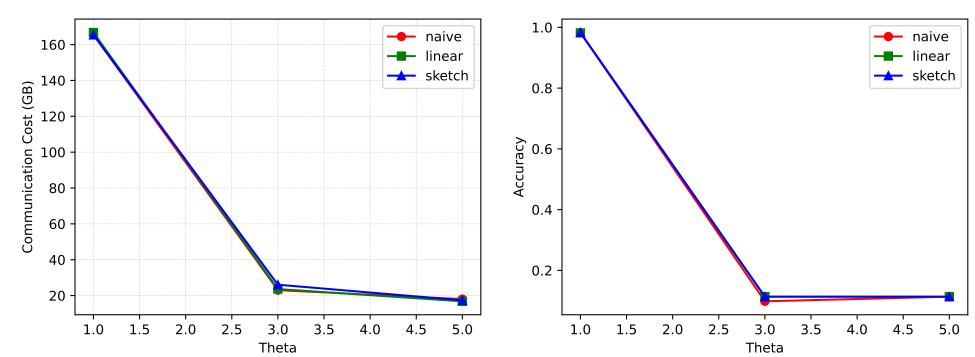
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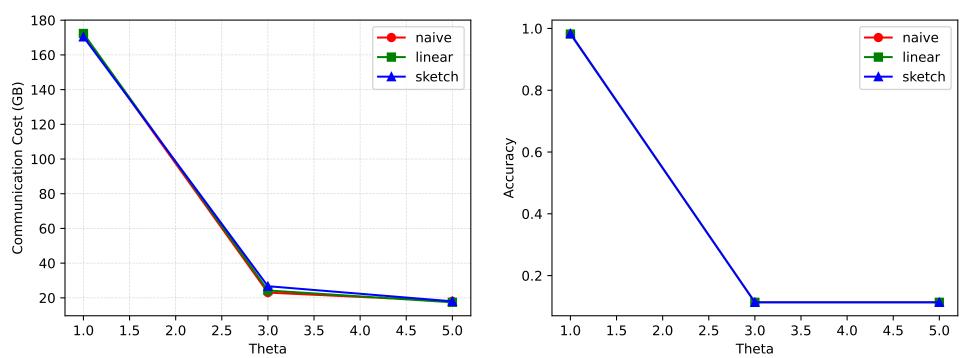
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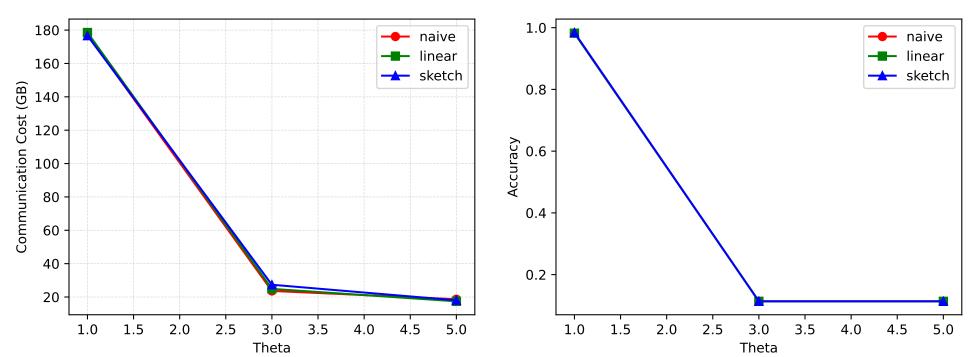
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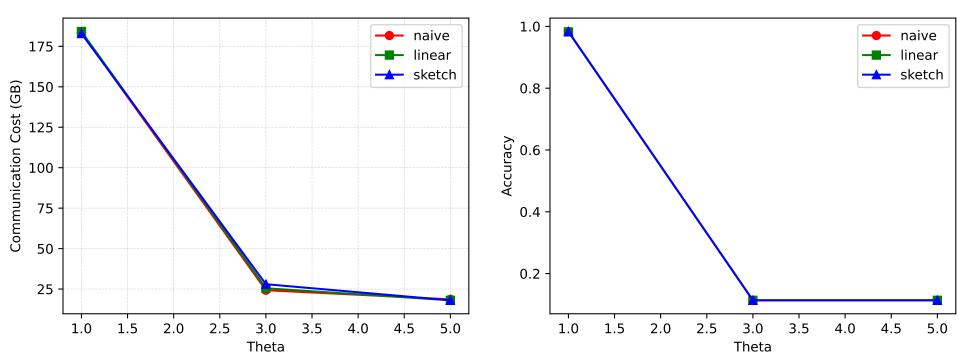
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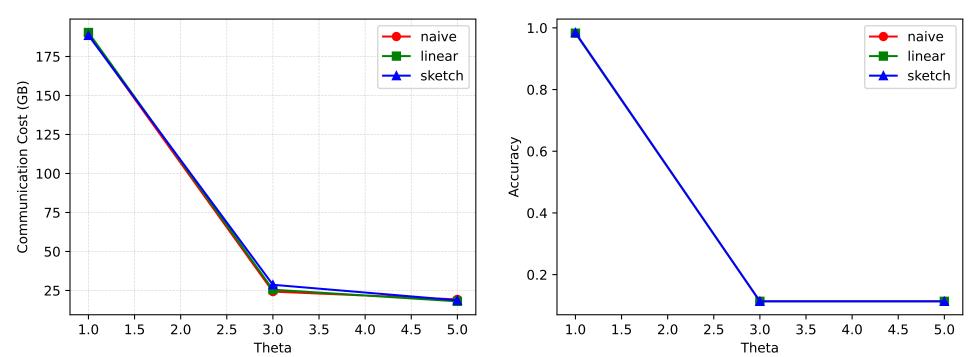
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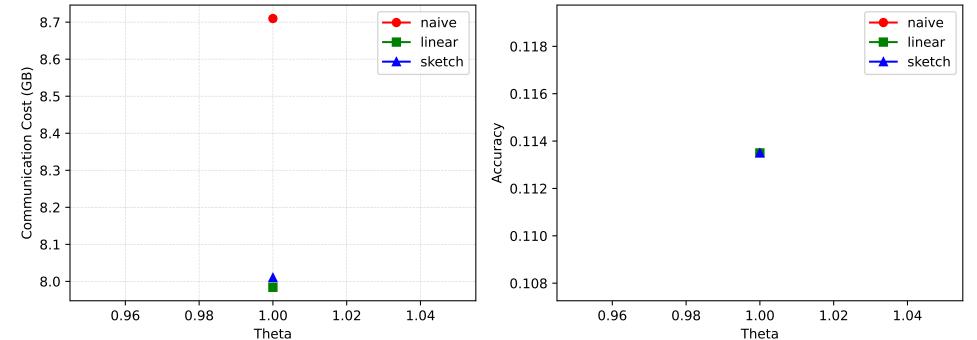
Clients: 30 , Epochs: 24 , Batch Size: 32 , Steps per RTC check: 1



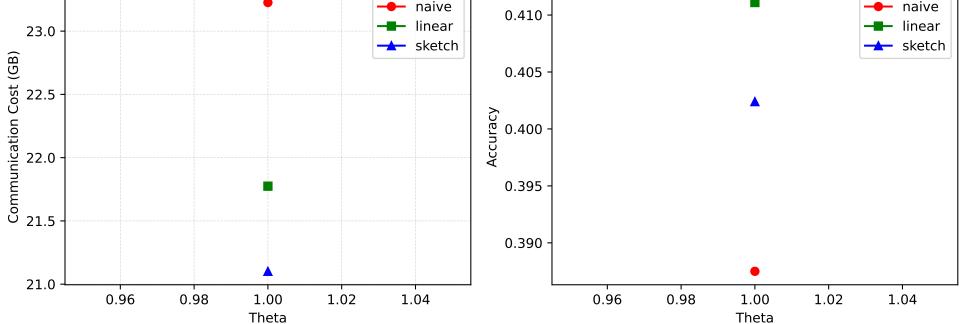
Clients: 30 , Epochs: 25 , Batch Size: 32 , Steps per RTC check: 1



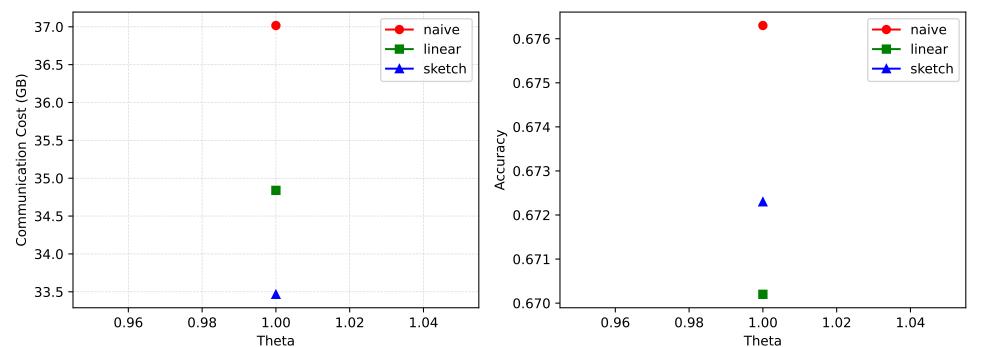
Clients: 35 , Epochs: 1 , Batch Size: 32 , Steps per RTC check: 1



Clients: 35 , Epochs: 2 , Batch Size: 32 , Steps per RTC check: 1 naive naive 0.410 -**─** linear 23.0 -→ sketch 0.405 -

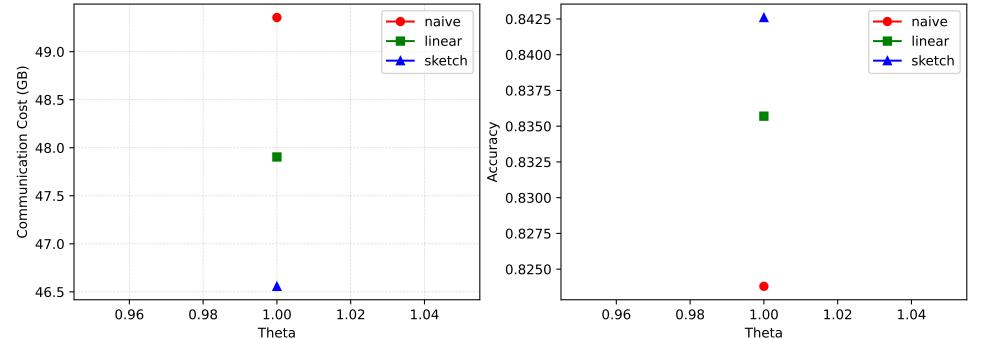


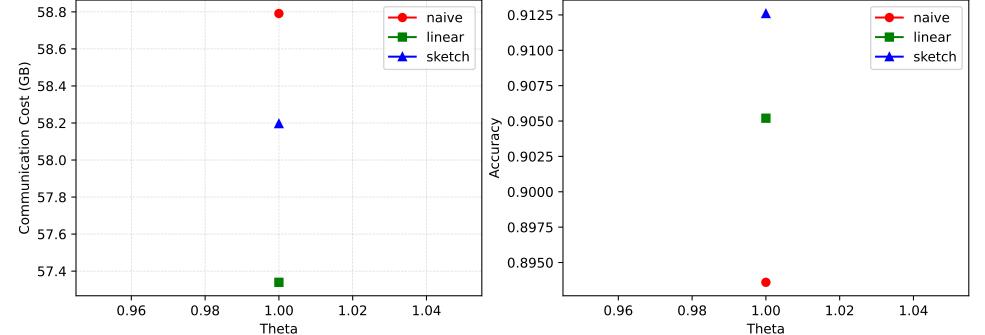
Clients: 35 , Epochs: 3 , Batch Size: 32 , Steps per RTC check: 1



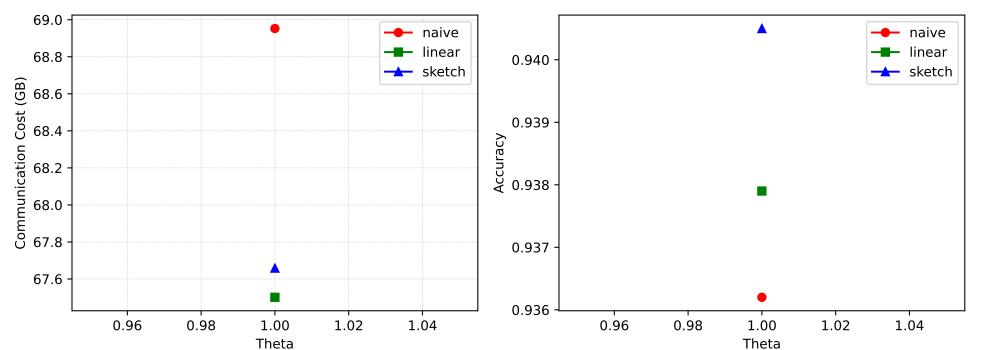
Clients: 35 , Epochs: 4 , Batch Size: 32 , Steps per RTC check: 1

O.8425 -

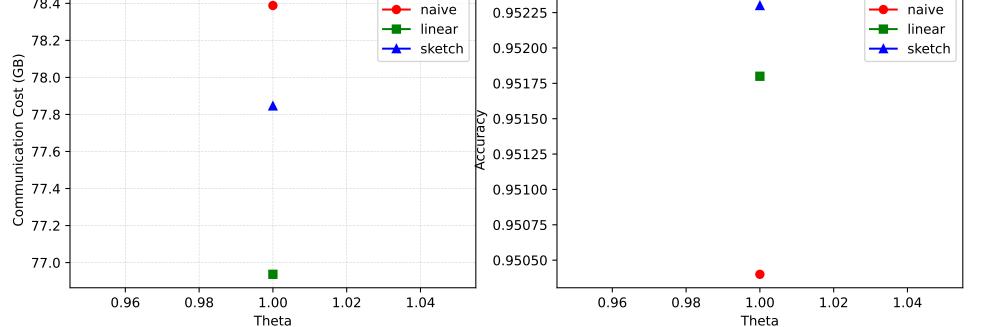




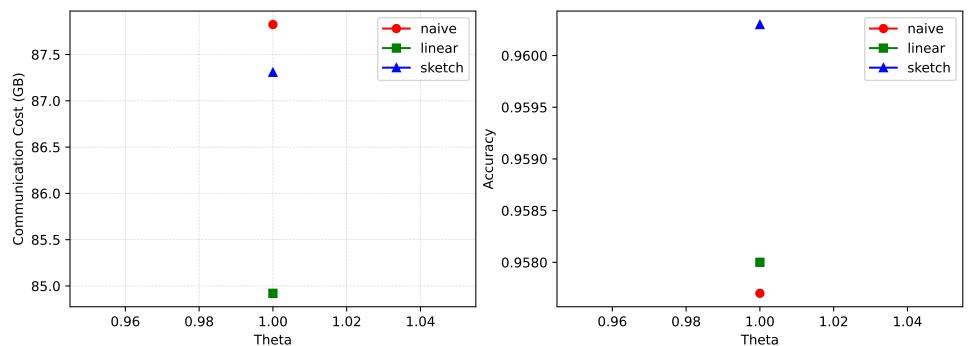
Clients: 35 , Epochs: 6 , Batch Size: 32 , Steps per RTC check: 1



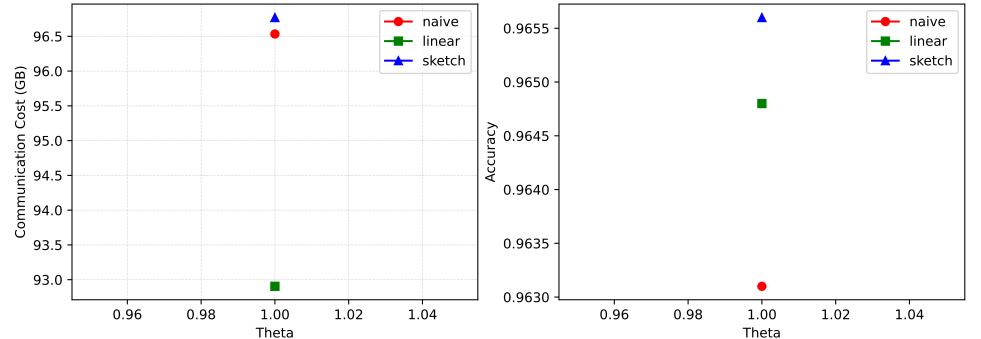
Clients: 35 , Epochs: 7 , Batch Size: 32 , Steps per RTC check: 1 78.4 naive naive 0.95225 -**─** linear **──** linear 78.2 -→ sketch 0.95200 -→ sketch (a) 78.0 -0.95175 -Communication Cost 77.8 -0.95150 -0.95125 -77.6 -77.4 -0.95100 -0.95075 -



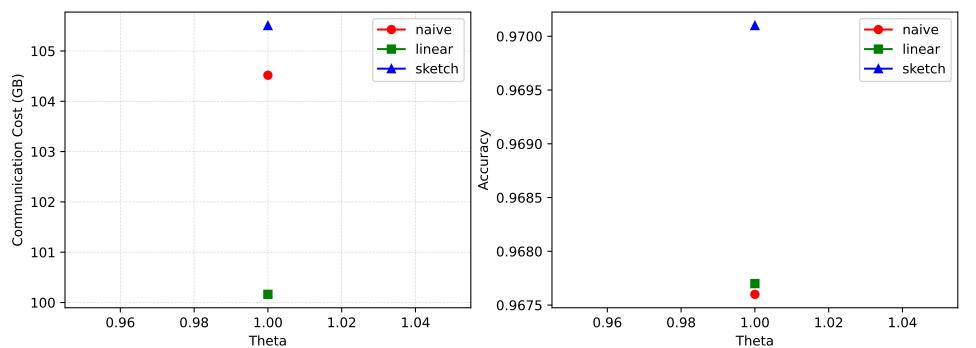
Clients: 35 , Epochs: 8 , Batch Size: 32 , Steps per RTC check: 1



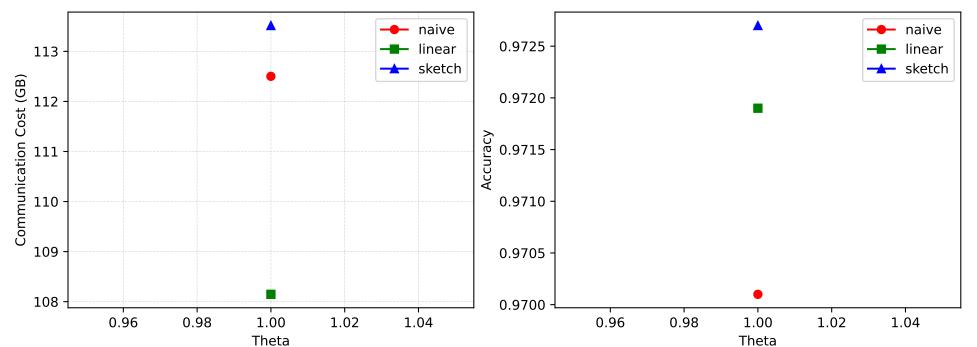
Clients: 35 , Epochs: 9 , Batch Size: 32 , Steps per RTC check: 1 naive 0.9655 -



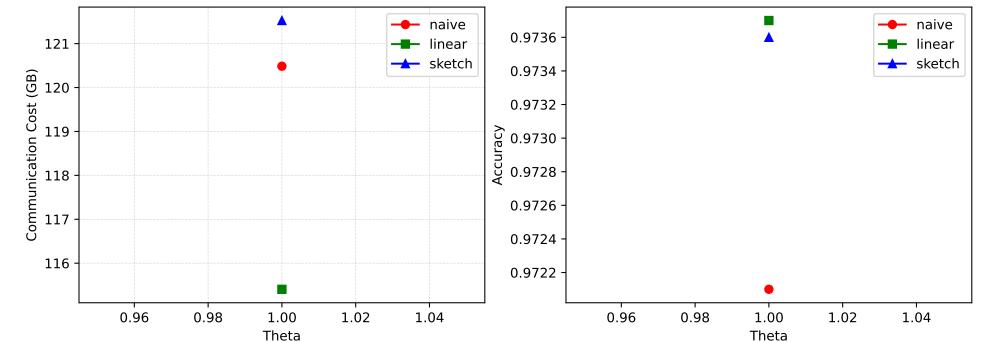
Clients: 35 , Epochs: 10 , Batch Size: 32 , Steps per RTC check: 1



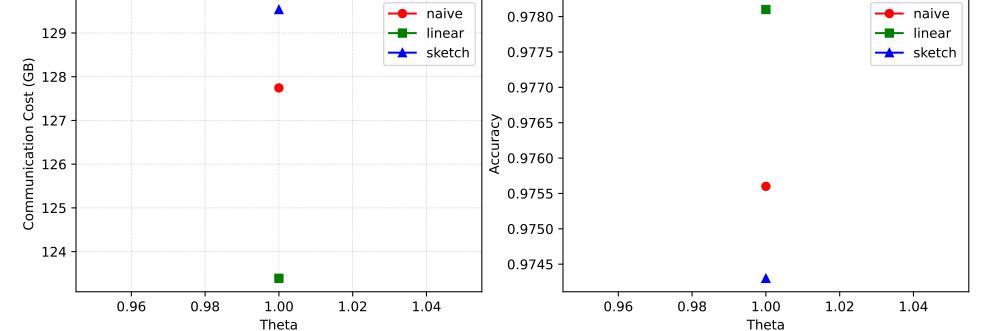
Clients: 35 , Epochs: 11 , Batch Size: 32 , Steps per RTC check: 1

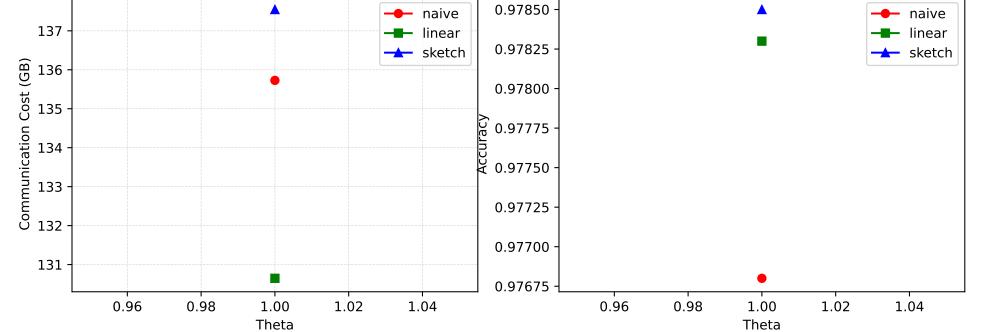


Clients: 35 , Epochs: 12 , Batch Size: 32 , Steps per RTC check: 1

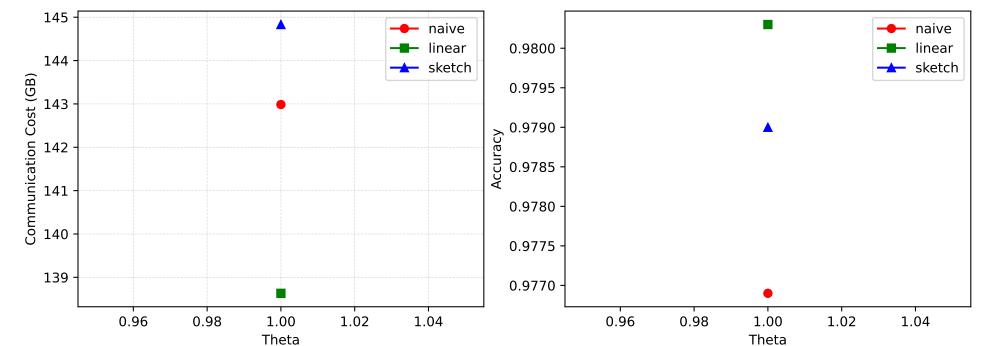


Clients: 35 , Epochs: 13 , Batch Size: 32 , Steps per RTC check: 1 naive 0.9780 -129 **──** linear

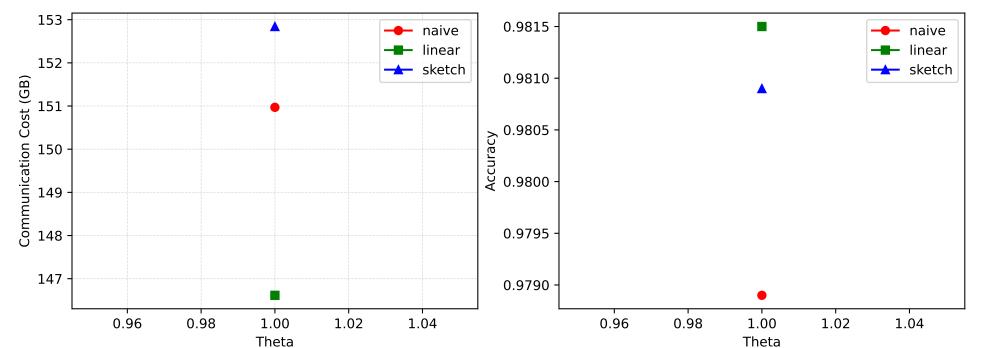




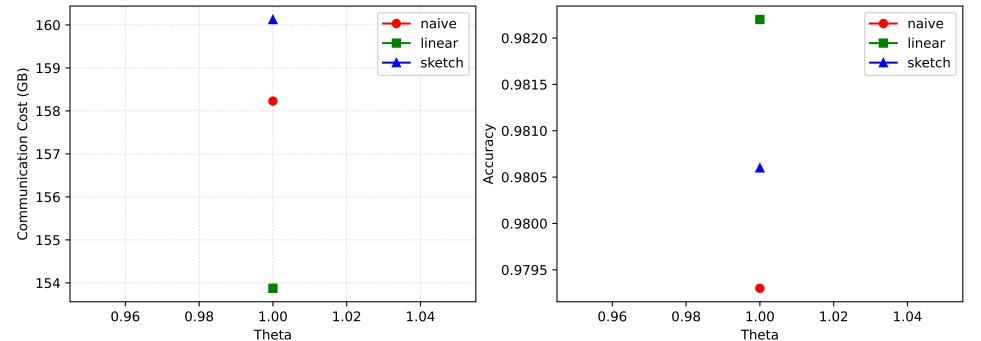
Clients: 35 , Epochs: 15 , Batch Size: 32 , Steps per RTC check: 1



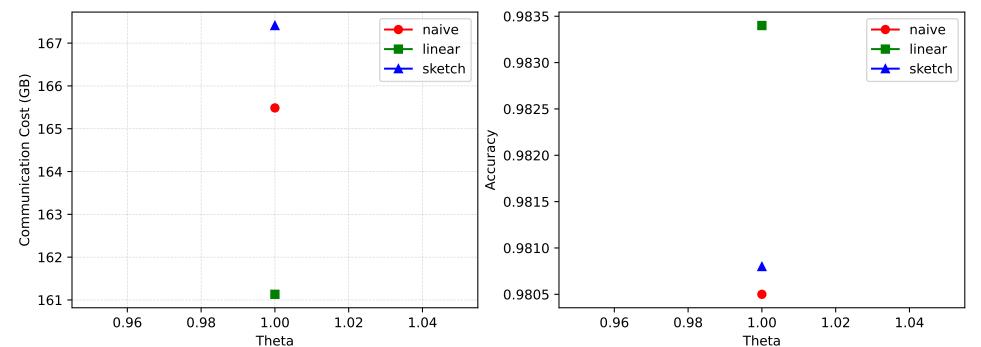
Clients: 35 , Epochs: 16 , Batch Size: 32 , Steps per RTC check: 1



Clients: 35 , Epochs: 17 , Batch Size: 32 , Steps per RTC check: 1

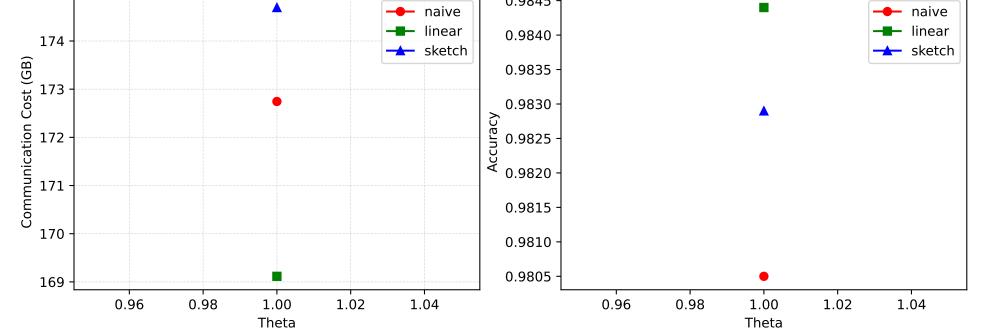


Clients: 35 , Epochs: 18 , Batch Size: 32 , Steps per RTC check: 1

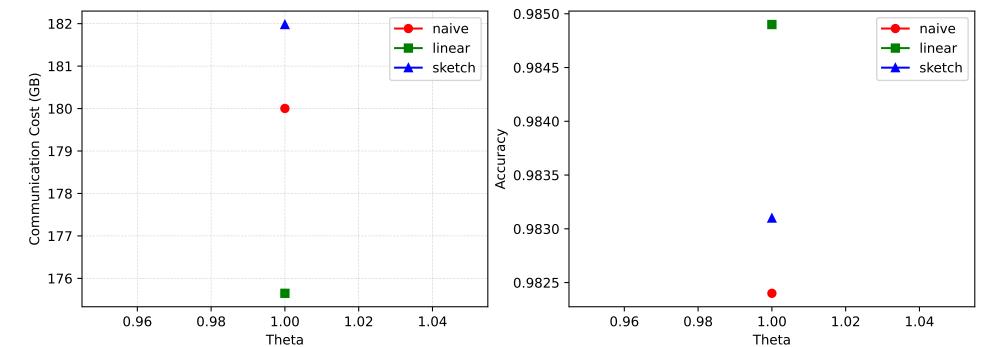


Clients: 35 , Epochs: 19 , Batch Size: 32 , Steps per RTC check: 1

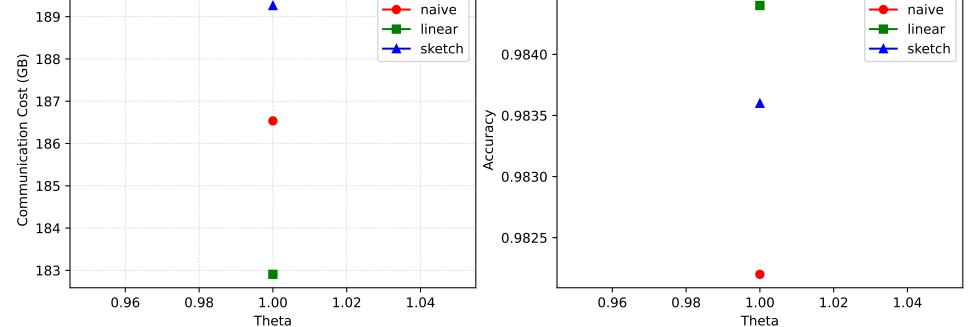
O.9845 - O.9840 - O.9840



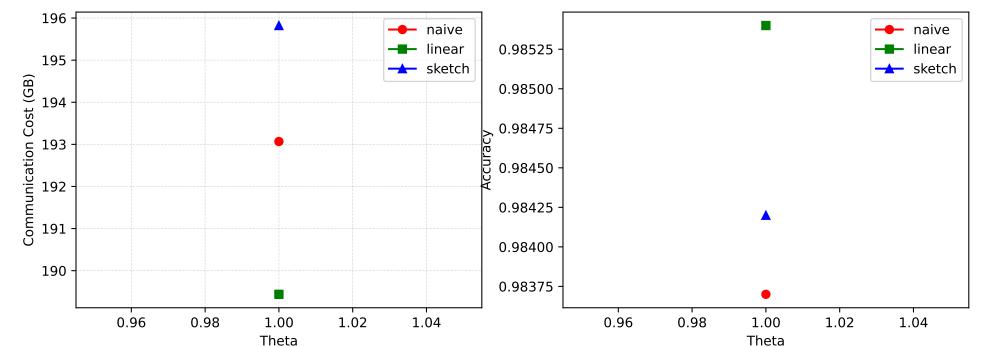
Clients: 35 , Epochs: 20 , Batch Size: 32 , Steps per RTC check: 1



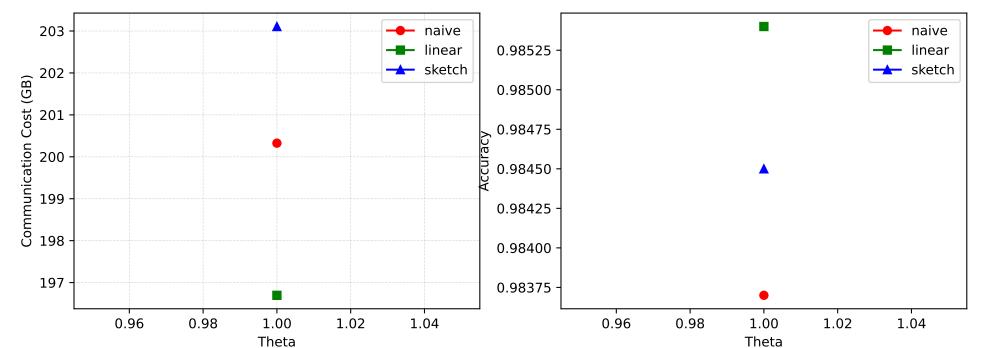
Clients: 35 , Epochs: 21 , Batch Size: 32 , Steps per RTC check: 1 0.9845 -- naive naive 189 **─** linear **──** linear → sketch → sketch 0.9840 -(02t (0B) 187 -186 -



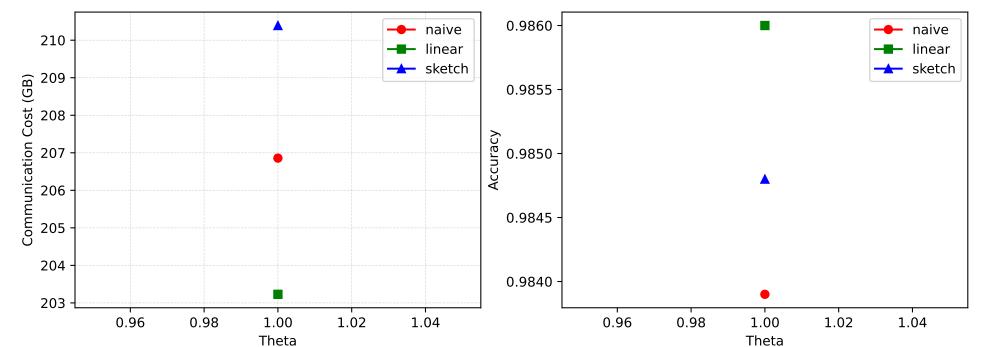
Clients: 35 , Epochs: 22 , Batch Size: 32 , Steps per RTC check: 1



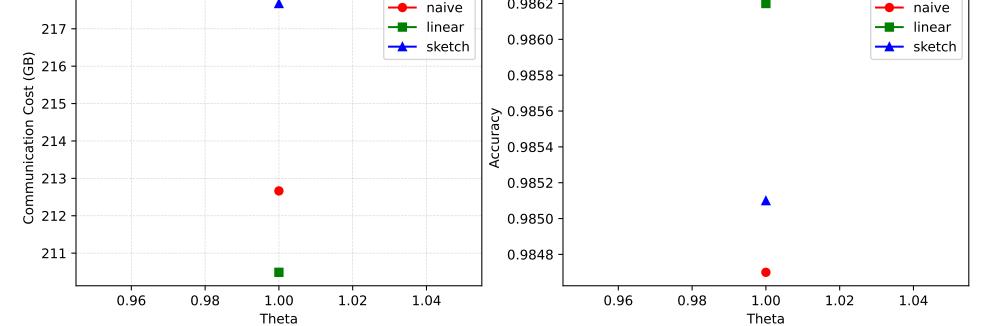
Clients: 35 , Epochs: 23 , Batch Size: 32 , Steps per RTC check: 1



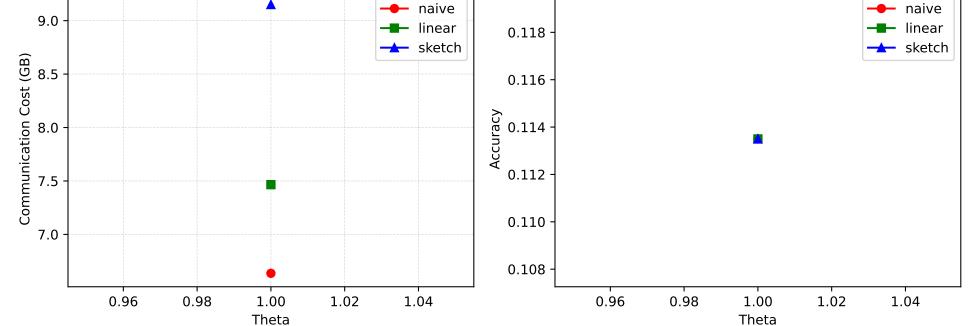
Clients: 35 , Epochs: 24 , Batch Size: 32 , Steps per RTC check: 1

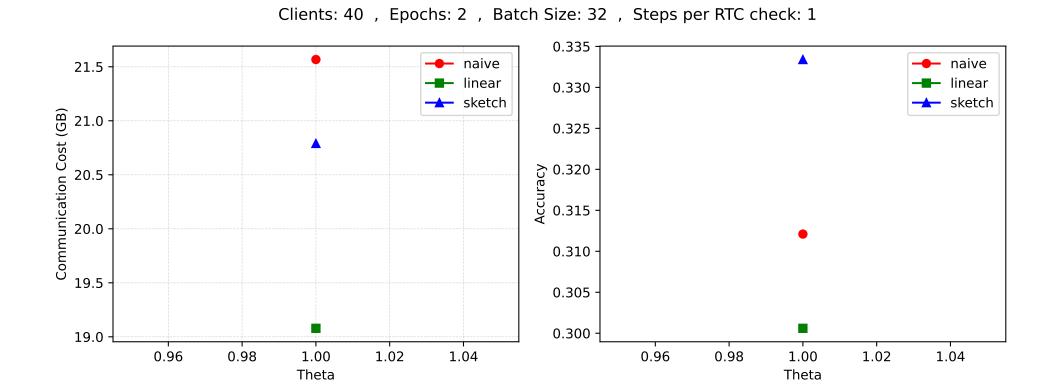


Clients: 35 , Epochs: 25 , Batch Size: 32 , Steps per RTC check: 1 218 0.9862 naive -- naive -Iinear **──** linear 217 0.9860 -→ sketch → sketch OS 216 -0.9858 -Accuracy - 4586.0 - 4586.0 Ommunication Communication Com 214 -0.9852 -0.9850 -

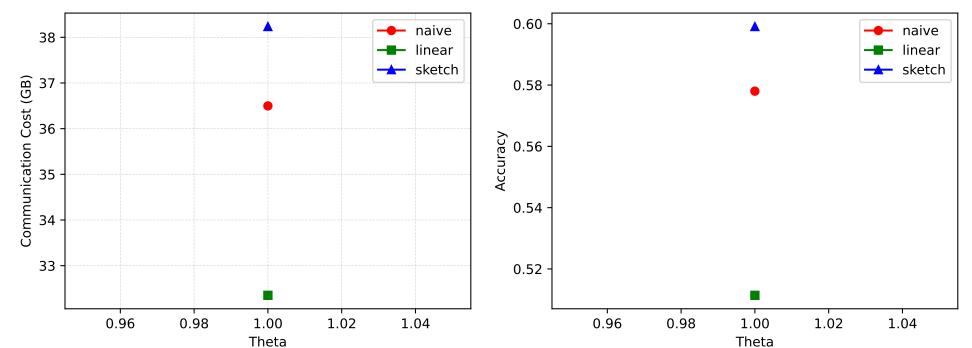


Clients: 40 , Epochs: 1 , Batch Size: 32 , Steps per RTC check: 1 naive 9.0 ── linear 0.118 -→ sketch

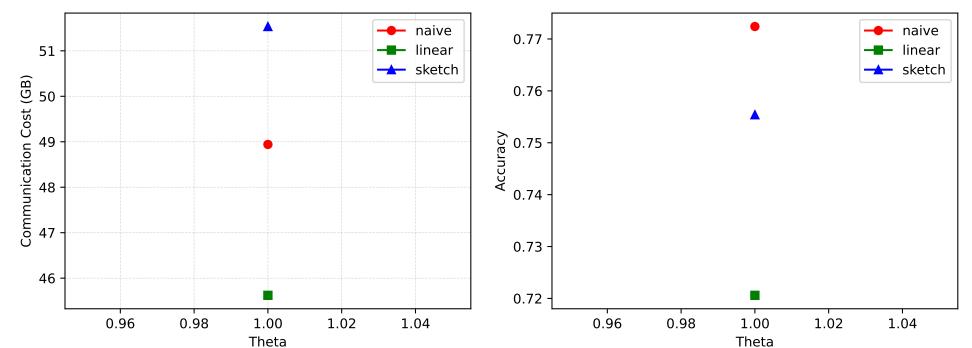




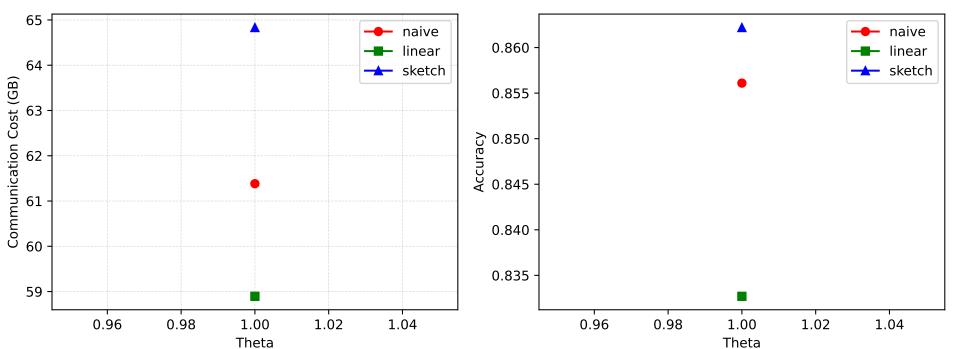
Clients: 40 , Epochs: 3 , Batch Size: 32 , Steps per RTC check: 1



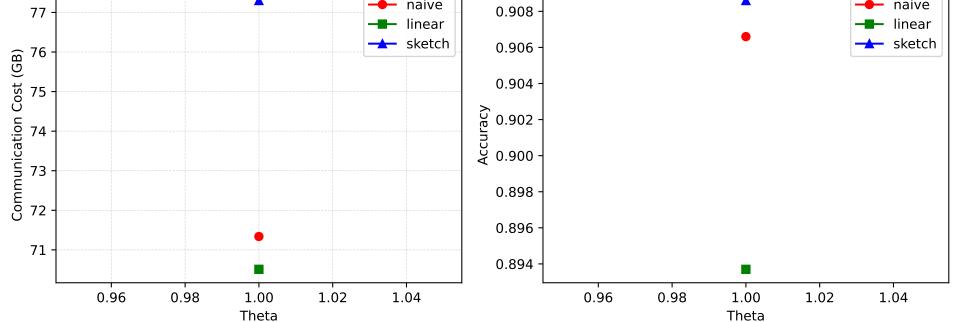
Clients: 40 , Epochs: 4 , Batch Size: 32 , Steps per RTC check: 1



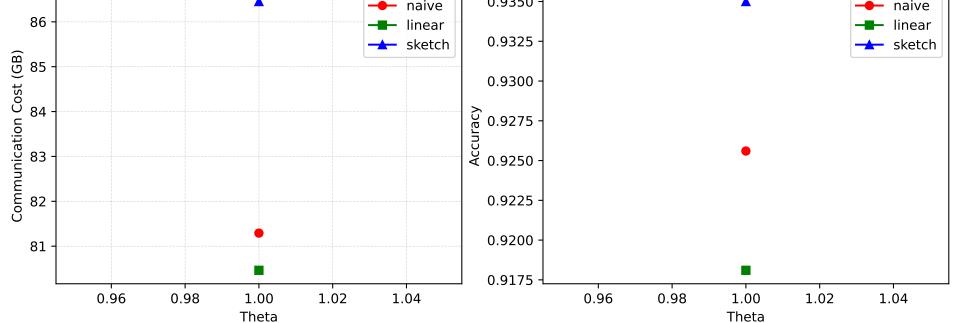
Clients: 40 , Epochs: 5 , Batch Size: 32 , Steps per RTC check: 1



Clients: 40 , Epochs: 6 , Batch Size: 32 , Steps per RTC check: 1 naive naive 0.908 -77 **──** linear → sketch 0.906 -0.904 -75 -

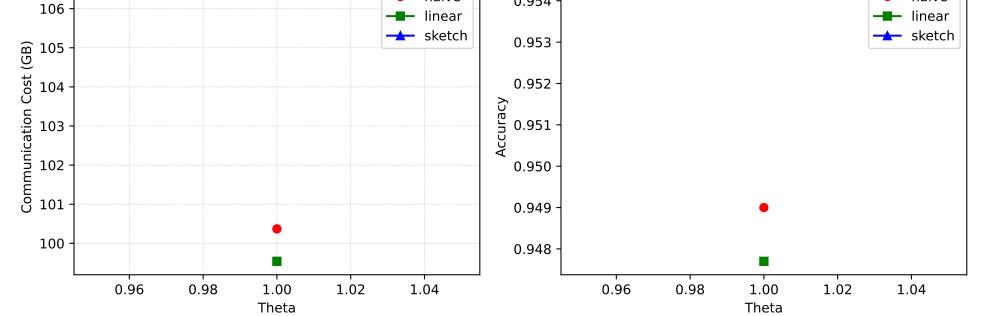


Clients: 40 , Epochs: 7 , Batch Size: 32 , Steps per RTC check: 1 0.9350 naive -- naive 86 **──** linear **──** linear 0.9325 -→ sketch → sketch 0.9300 -84 -

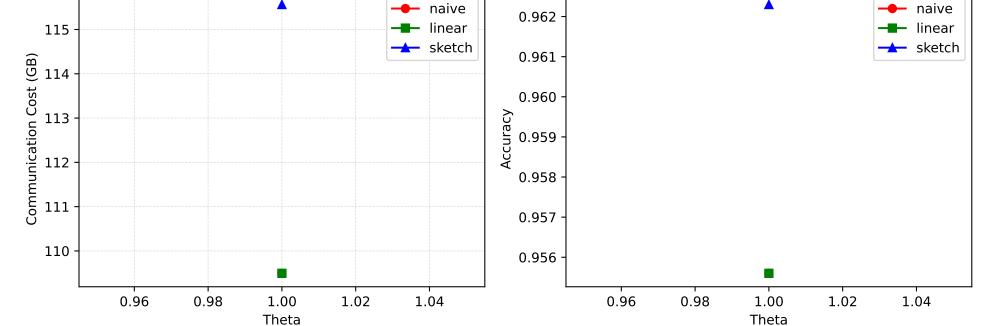


Clients: 40 , Epochs: 8 , Batch Size: 32 , Steps per RTC check: 1 0.950 naive naive 96 ── linear **──** linear 0.948 -→ sketch → sketch 0.946 -Accuracy - 246.0 93 -0.940 -0.938 -90 0.936 -0.96 0.98 1.02 1.04 0.96 0.98 1.00 1.02 1.04 1.00 Theta Theta

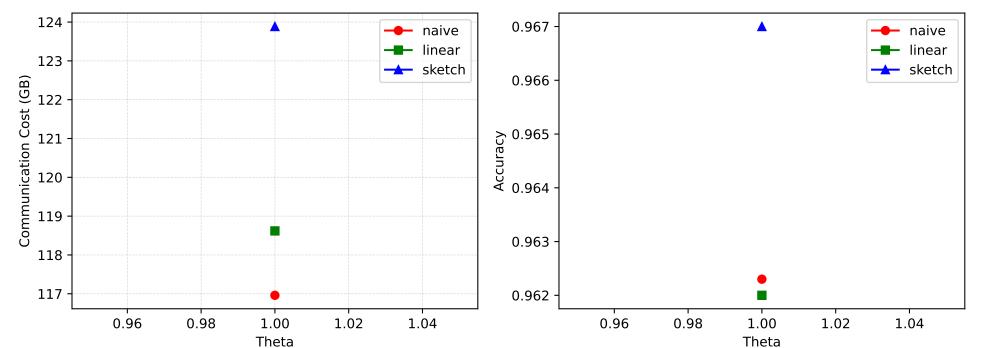
Clients: 40 , Epochs: 9 , Batch Size: 32 , Steps per RTC check: 1 naive naive 0.954 -106 ── linear **──** linear → sketch → sketch 0.953 -(GB) 105 - 104 -0.952 -103 -



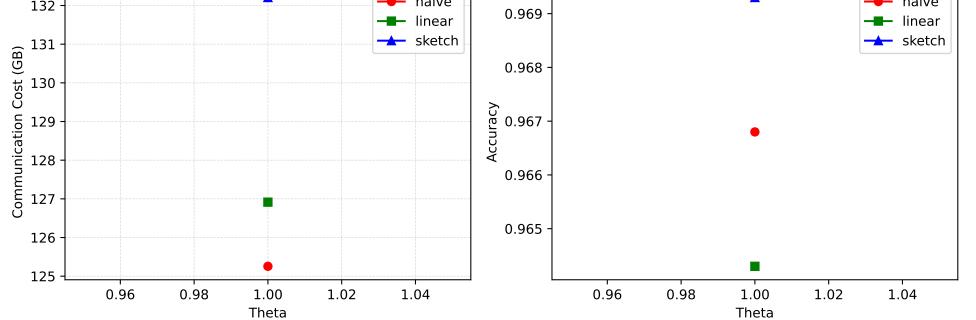
Clients: 40 , Epochs: 10 , Batch Size: 32 , Steps per RTC check: 1 naive 0.962 ---- linear 115 -→ sketch 0.961 -



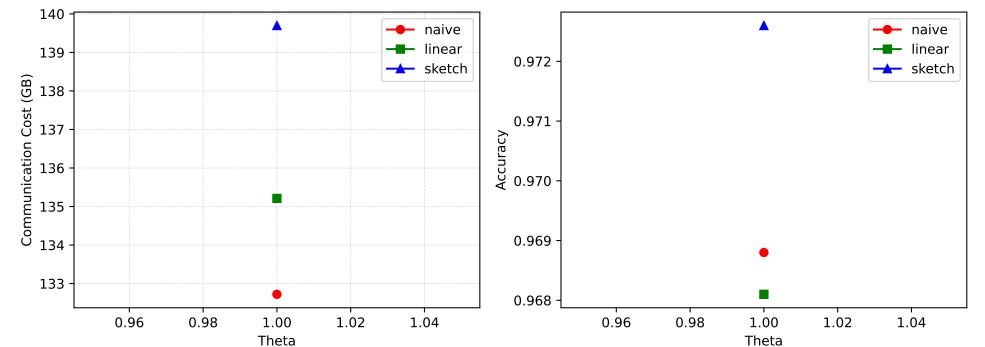
Clients: 40 , Epochs: 11 , Batch Size: 32 , Steps per RTC check: 1



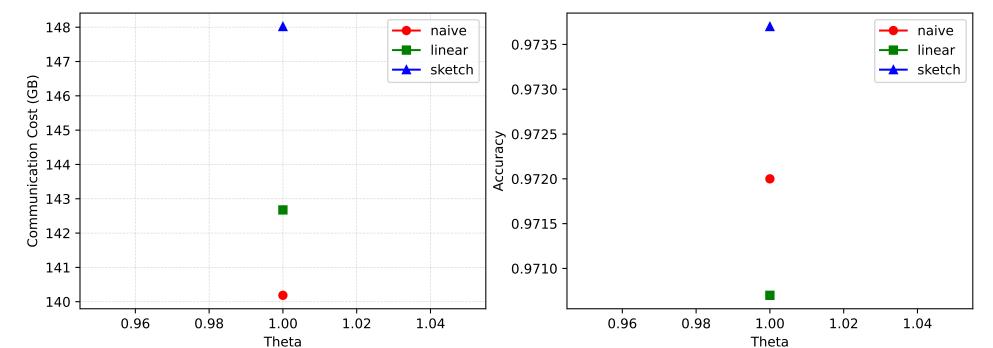
Clients: 40 , Epochs: 12 , Batch Size: 32 , Steps per RTC check: 1 -- naive naive 132 -0.969 -**─** linear **──** linear → sketch → sketch Ost 130 -0.968 -129 -



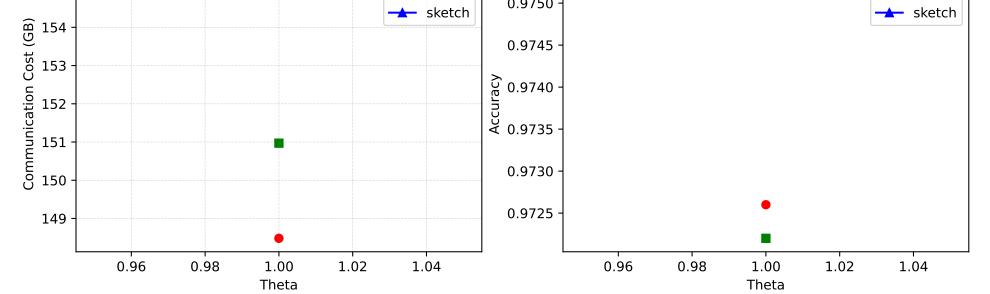
Clients: 40 , Epochs: 13 , Batch Size: 32 , Steps per RTC check: 1



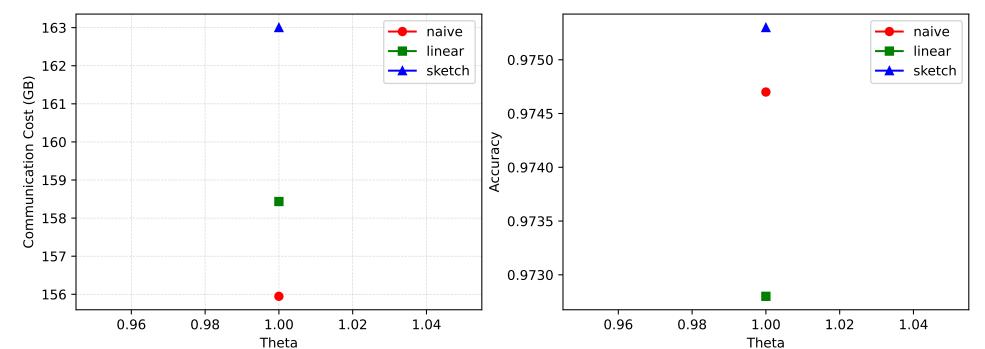
Clients: 40 , Epochs: 14 , Batch Size: 32 , Steps per RTC check: 1



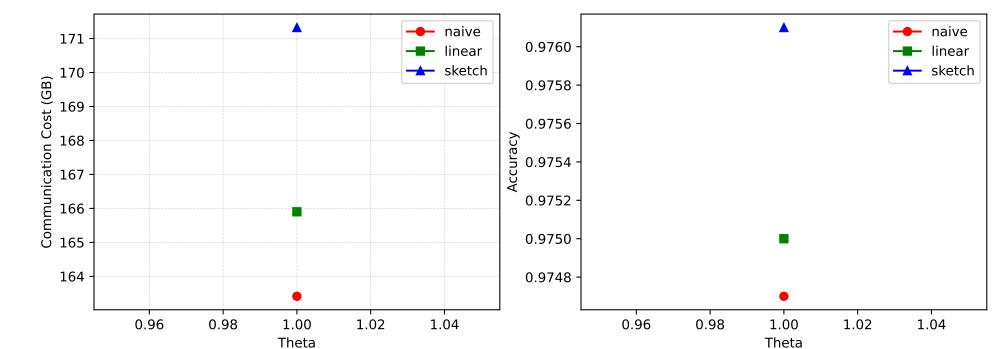
Clients: 40 , Epochs: 15 , Batch Size: 32 , Steps per RTC check: 1 0.9755 naive naive 155 **──** linear **──** linear 0.9750 -→ sketch → sketch (gg) 154 -0.9745 -Accuracy 0.9740 -Communication 152 -151 -0.9730 -150



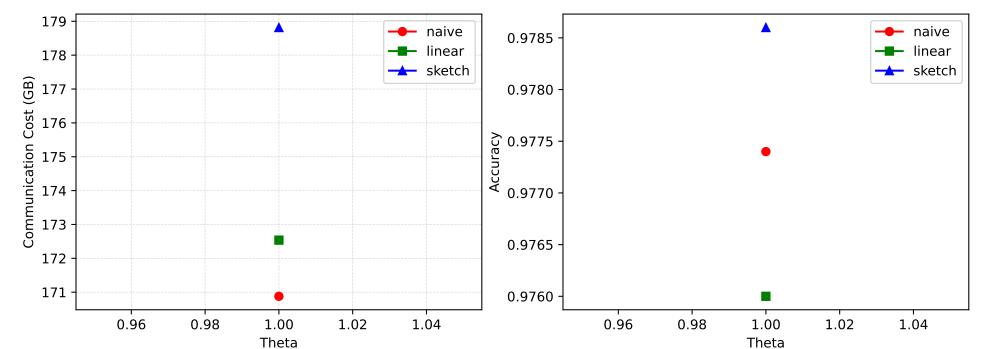
Clients: 40 , Epochs: 16 , Batch Size: 32 , Steps per RTC check: 1



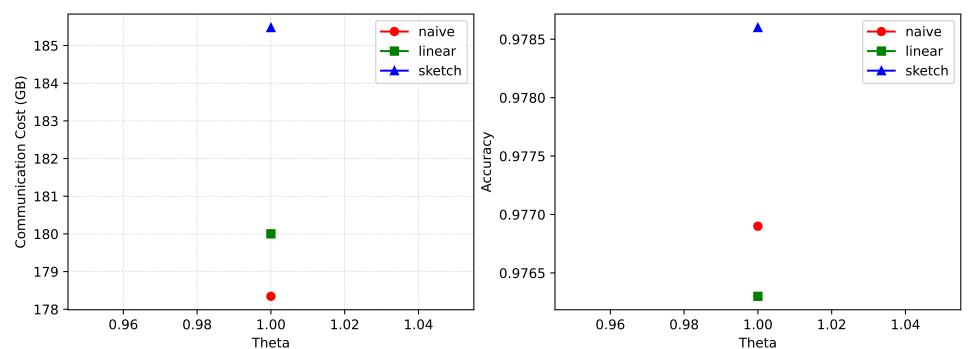
Clients: 40 , Epochs: 17 , Batch Size: 32 , Steps per RTC check: 1



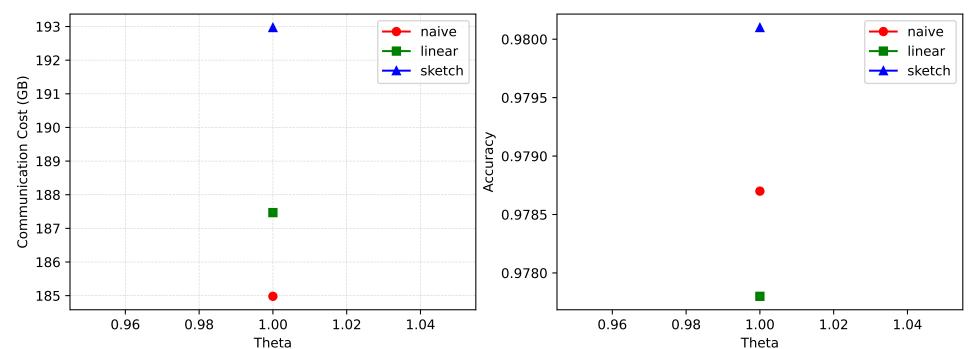
Clients: 40 , Epochs: 18 , Batch Size: 32 , Steps per RTC check: 1

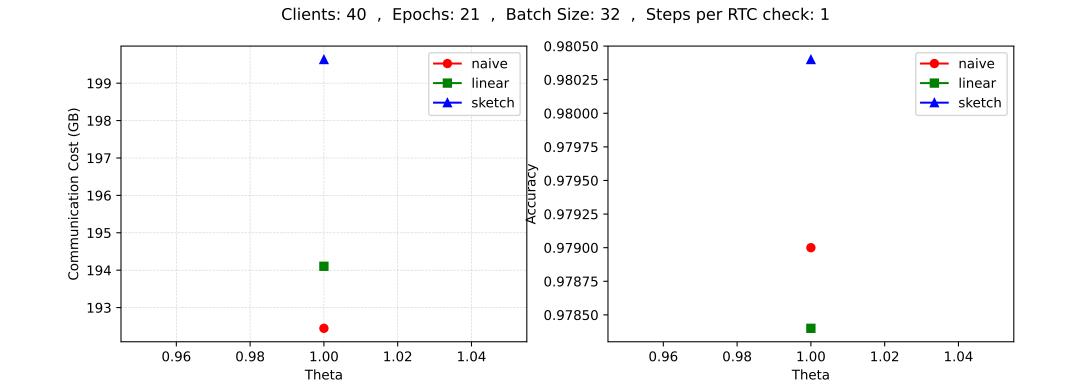


Clients: 40 , Epochs: 19 , Batch Size: 32 , Steps per RTC check: 1

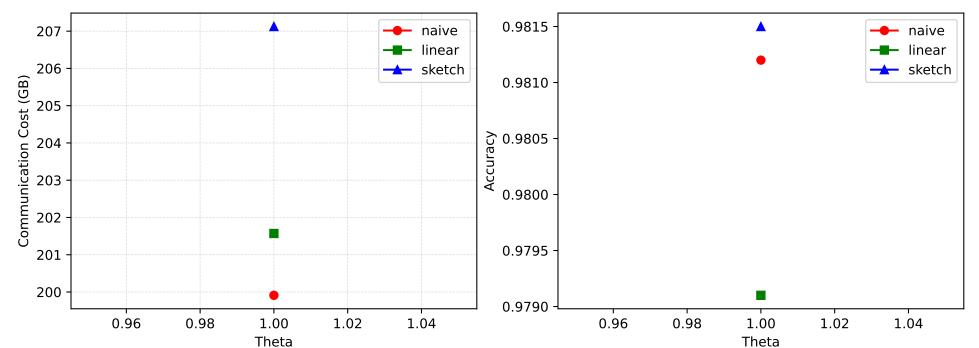


Clients: 40 , Epochs: 20 , Batch Size: 32 , Steps per RTC check: 1

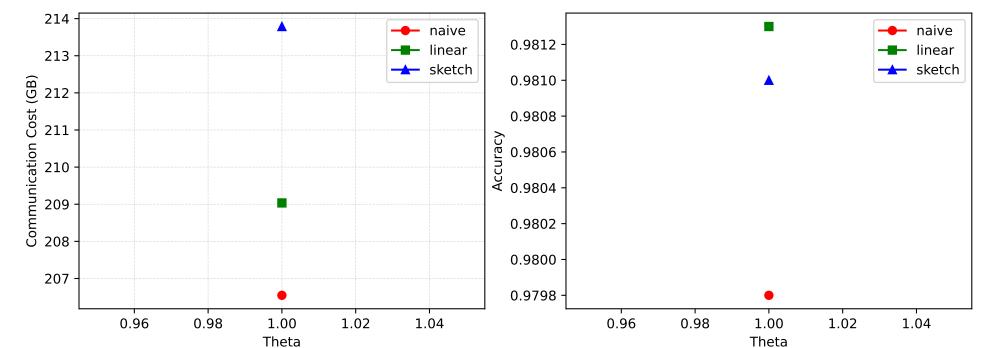




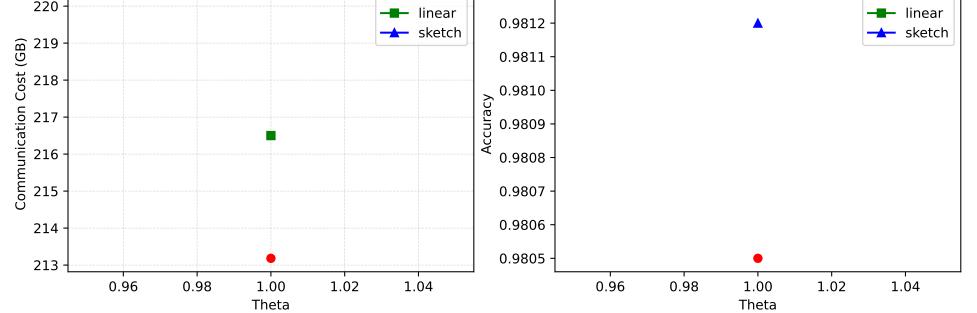
Clients: 40 , Epochs: 22 , Batch Size: 32 , Steps per RTC check: 1



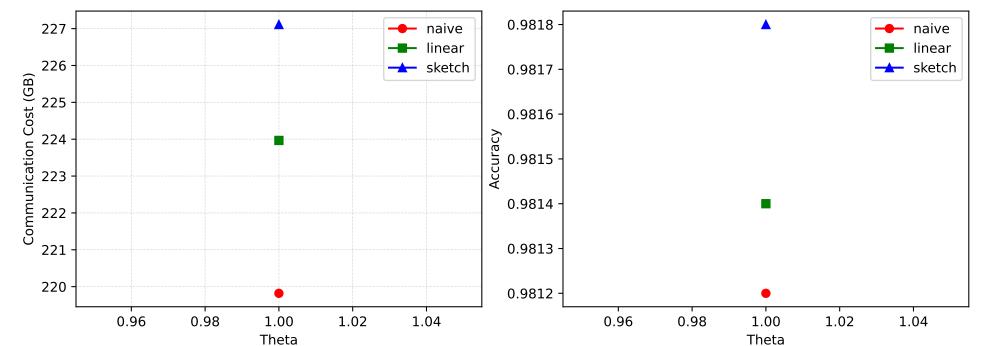
Clients: 40 , Epochs: 23 , Batch Size: 32 , Steps per RTC check: 1



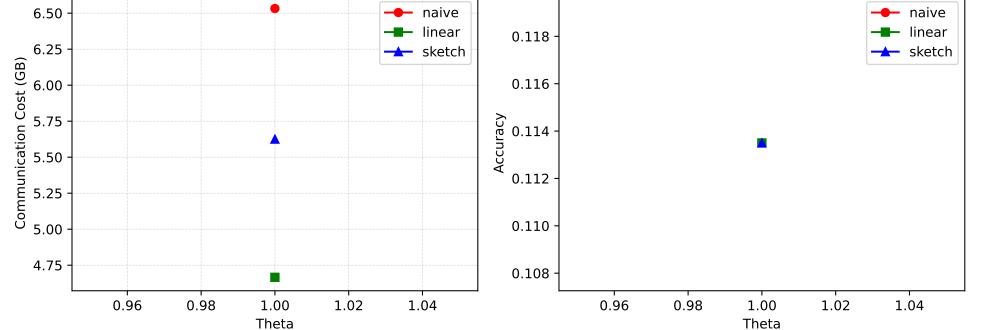
Clients: 40 , Epochs: 24 , Batch Size: 32 , Steps per RTC check: 1 0.9813 naive naive 220 **──** linear **──** linear 0.9812 -→ sketch → sketch (00 219 - 218 - 21 0.9811 -217 -



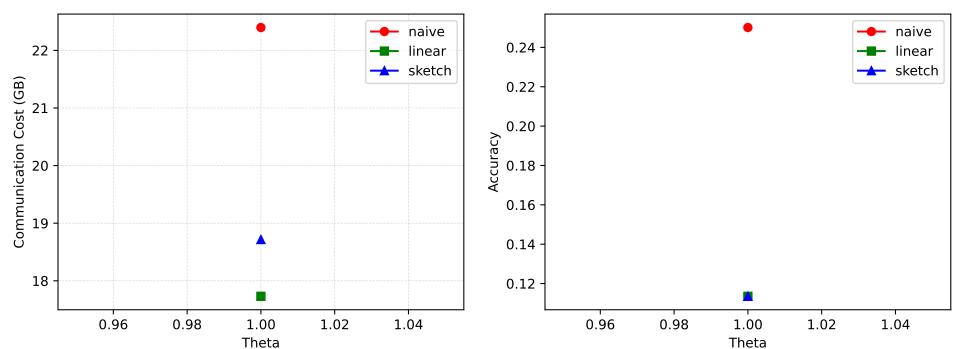
Clients: 40 , Epochs: 25 , Batch Size: 32 , Steps per RTC check: 1



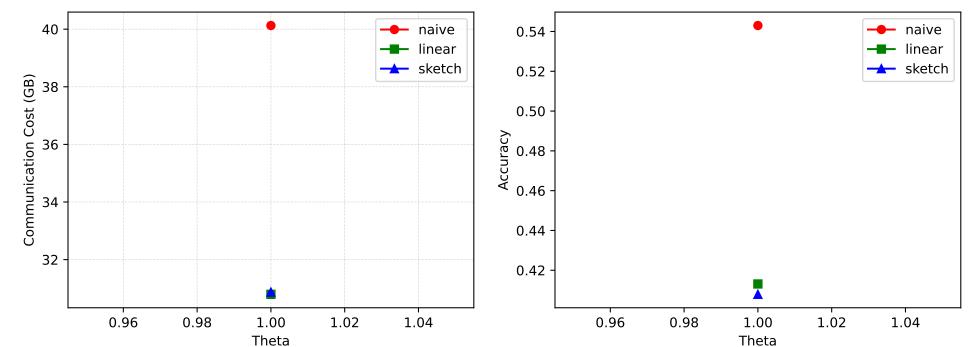
Clients: 45 , Epochs: 1 , Batch Size: 32 , Steps per RTC check: 1 -- naive naive 6.50 **─** linear **──** linear 0.118 -6.25 → sketch → sketch 6.00 0.116 -5.75 -



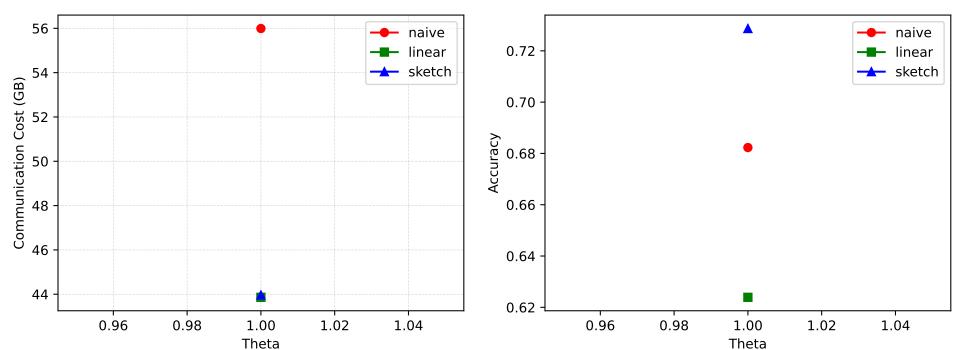
Clients: 45 , Epochs: 2 , Batch Size: 32 , Steps per RTC check: 1



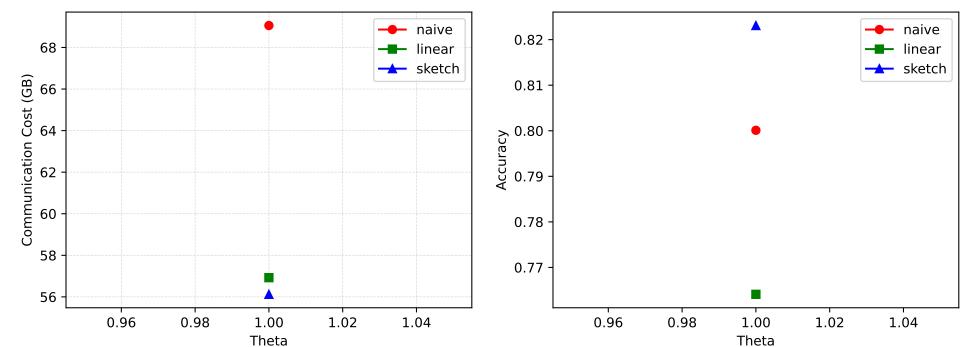
Clients: 45 , Epochs: 3 , Batch Size: 32 , Steps per RTC check: 1



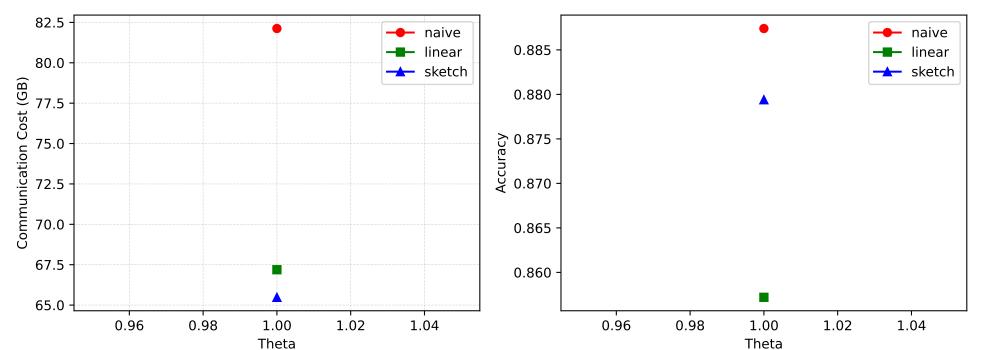
Clients: 45 , Epochs: 4 , Batch Size: 32 , Steps per RTC check: 1



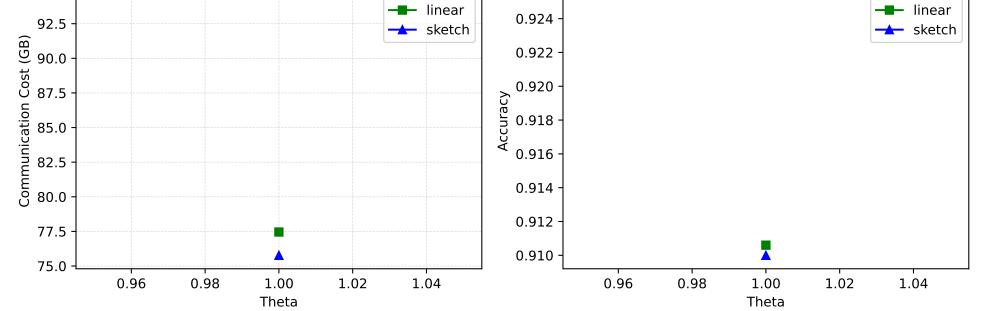
Clients: 45 , Epochs: 5 , Batch Size: 32 , Steps per RTC check: 1



Clients: 45 , Epochs: 6 , Batch Size: 32 , Steps per RTC check: 1

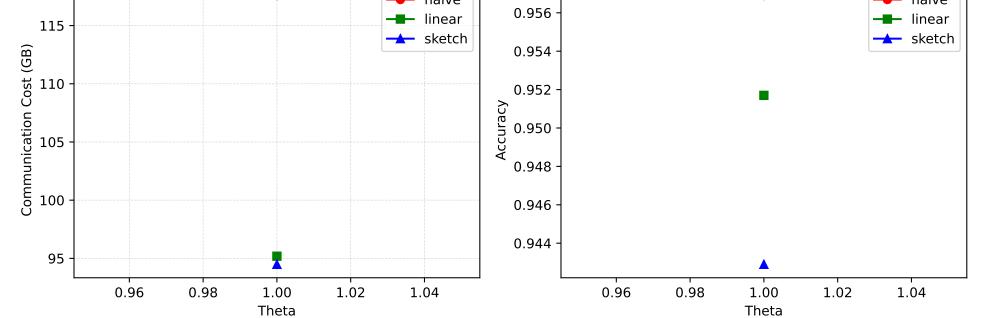


Clients: 45 , Epochs: 7 , Batch Size: 32 , Steps per RTC check: 1 0.926 -95.0 --- naive -- naive **──** linear **──** linear 0.924 -92.5 -→ sketch → sketch (B) 90.0 -0.922 -Accuracy 6.0 0.92 87.5 -85.0 -0.916 -0.914 -



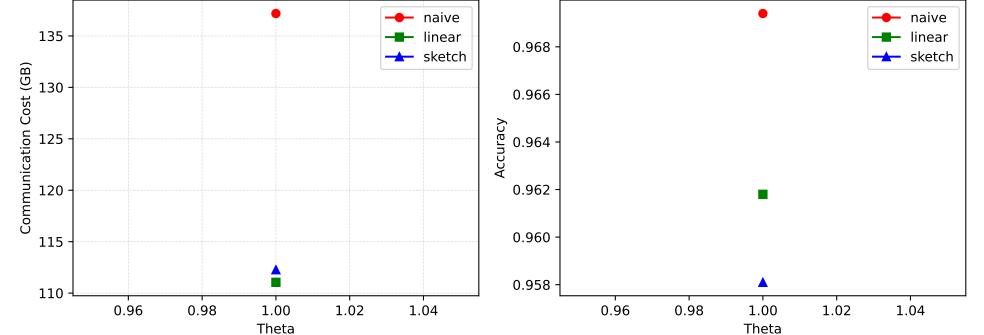
Clients: 45 , Epochs: 8 , Batch Size: 32 , Steps per RTC check: 1 0.946naive naive **─** linear **──** linear 0.944 -105 → sketch → sketch (GB) 0.942 -Cost 100 -0.940 -Communication 95 -0.936 -90 0.934 -0.932 -85 0.96 0.98 1.00 1.02 1.04 0.96 0.98 1.00 1.02 1.04 Theta Theta

Clients: 45 , Epochs: 9 , Batch Size: 32 , Steps per RTC check: 1 naive **—** naive 0.956 -**──** linear **──** linear 115 -→ sketch → sketch (GB) 0.954 -0.952 -

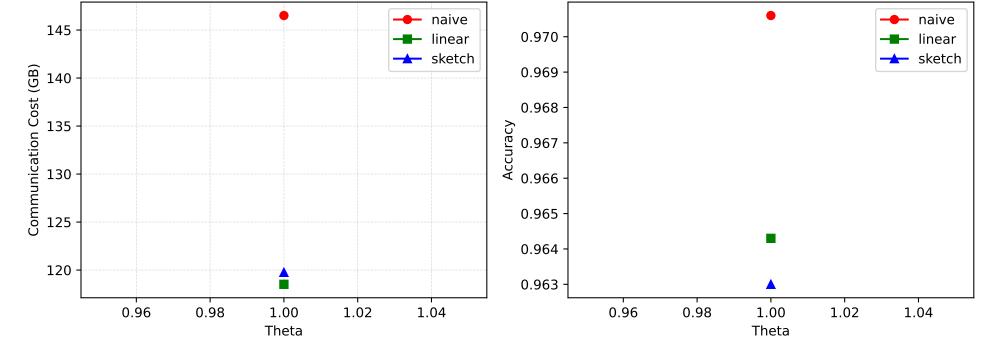


Clients: 45 , Epochs: 10 , Batch Size: 32 , Steps per RTC check: 1 0.964 **—** naive naive 125 -**──** linear **──** linear 0.962 -→ sketch → sketch Communication Cost (GB) 0.960 -0.958 -0.956 -0.954 -105 0.952 -0.96 0.98 1.02 1.04 0.96 0.98 1.00 1.02 1.04 1.00 Theta Theta

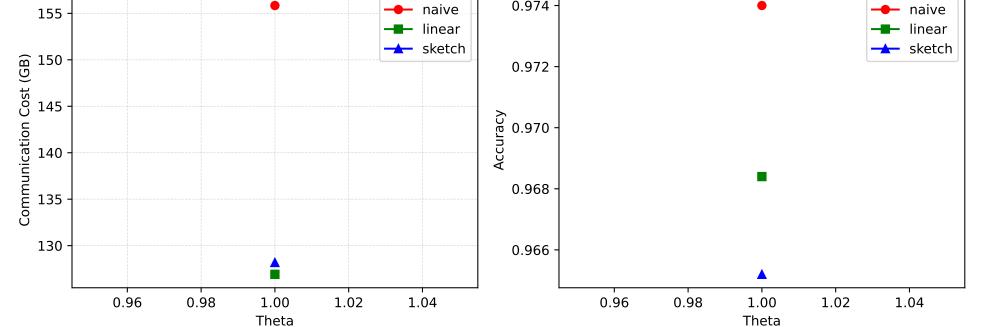
Clients: 45 , Epochs: 11 , Batch Size: 32 , Steps per RTC check: 1 naive 135 **──** linear



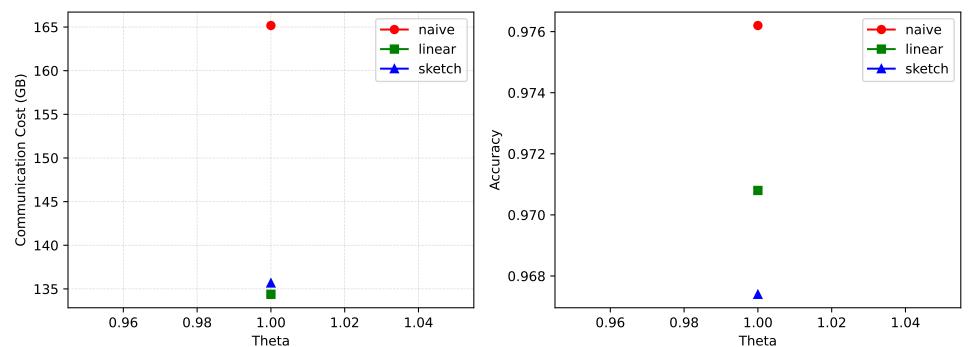
Clients: 45 , Epochs: 12 , Batch Size: 32 , Steps per RTC check: 1 naive 145 0.970 -**─** linear



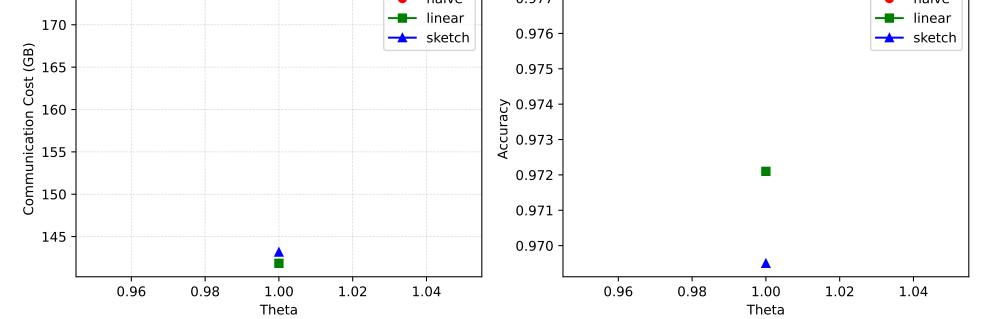
Clients: 45 , Epochs: 13 , Batch Size: 32 , Steps per RTC check: 1 0.974 --- naive 155 -**─** linear → sketch

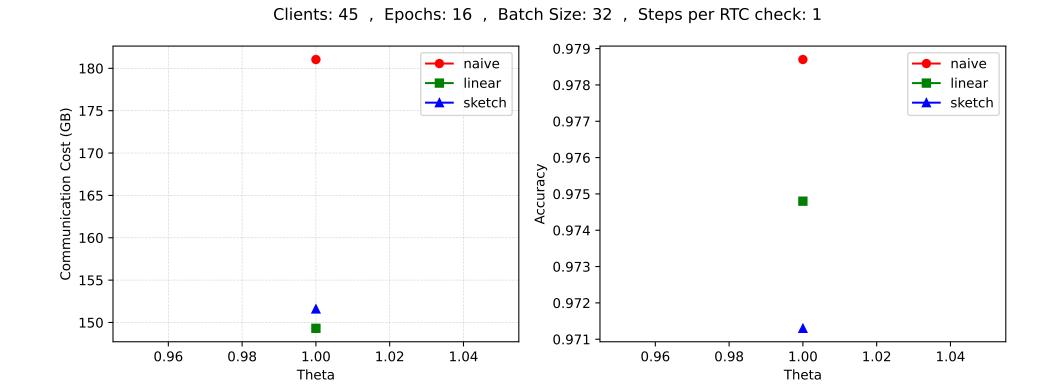


Clients: 45 , Epochs: 14 , Batch Size: 32 , Steps per RTC check: 1

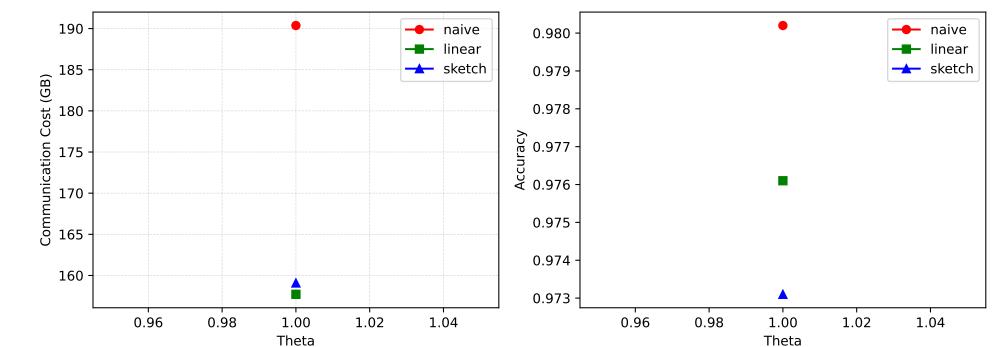


Clients: 45 , Epochs: 15 , Batch Size: 32 , Steps per RTC check: 1 175 naive naive 0.977 -**──** linear **──** linear 170 -0.976 -→ sketch → sketch Cost (GB) 165 0.975 -160 -

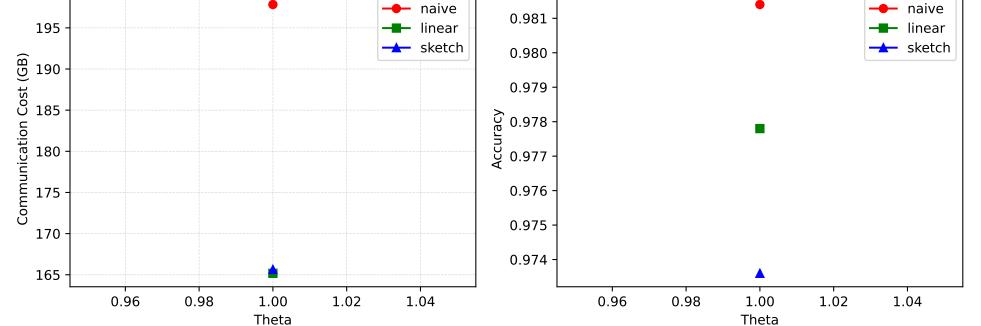




Clients: 45 , Epochs: 17 , Batch Size: 32 , Steps per RTC check: 1

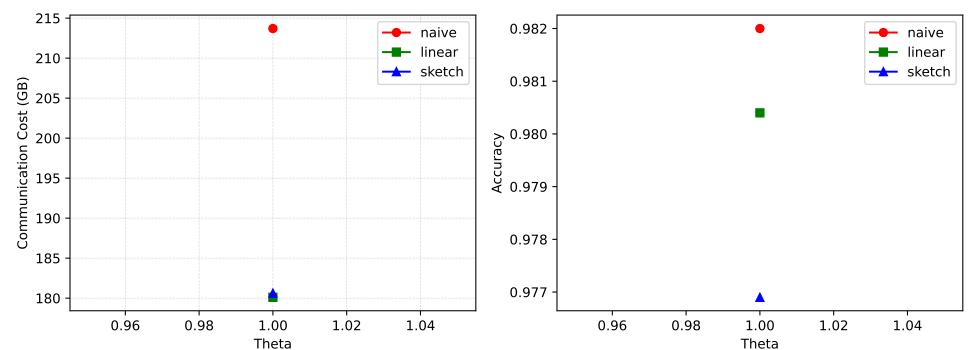


Clients: 45 , Epochs: 18 , Batch Size: 32 , Steps per RTC check: 1 naive **—** naive 0.981 -195 -**──** linear **──** linear → sketch → sketch 0.980 -Cost (GB) 190 0.979 -185 -

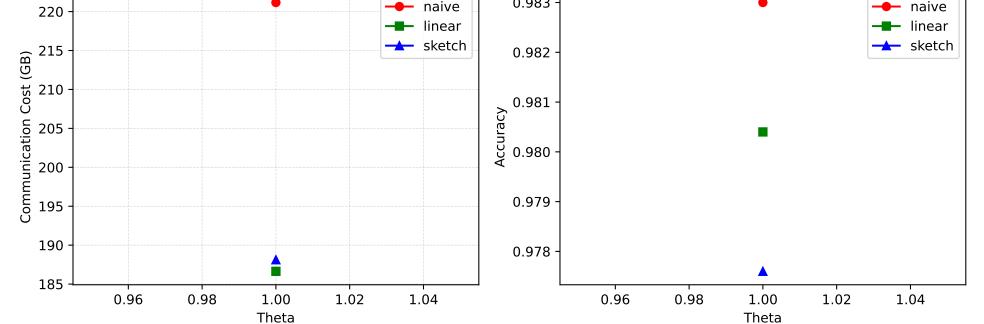


Clients: 45 , Epochs: 19 , Batch Size: 32 , Steps per RTC check: 1 0.982 -- naive naive 205 **─** linear **──** linear 0.981 -→ sketch → sketch Cost (GB) 195 -0.980 -Accuracy 0.978 -Communication 190 -185 -0.977 -180 0.976 -175 -0.975 -0.96 0.98 1.02 1.04 0.96 0.98 1.00 1.02 1.04 1.00 Theta Theta

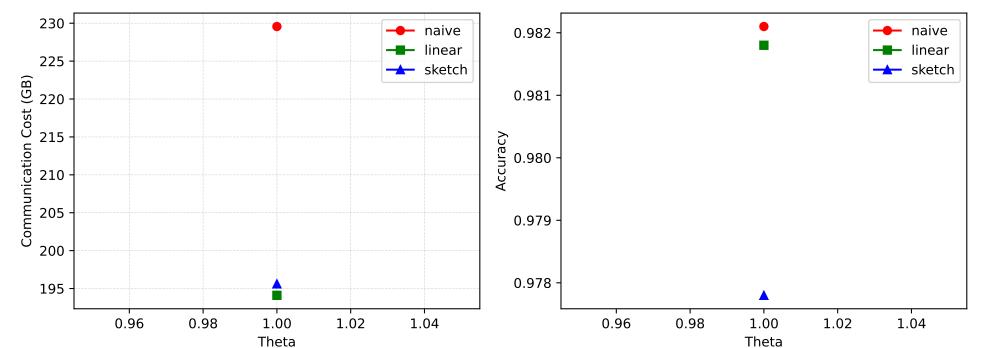
Clients: 45 , Epochs: 20 , Batch Size: 32 , Steps per RTC check: 1



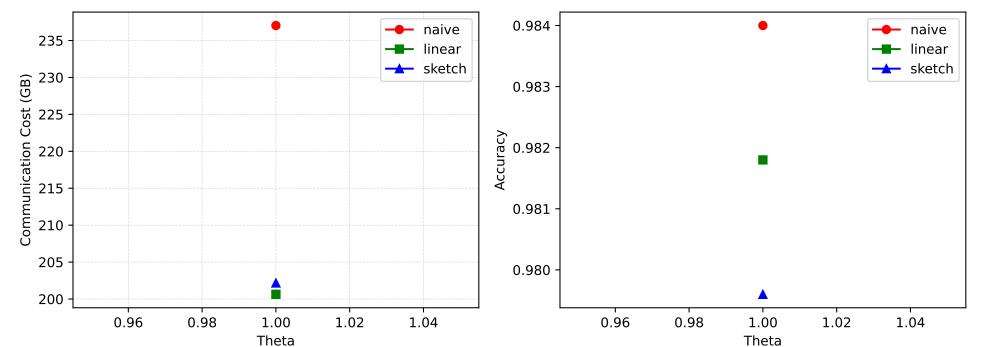
Clients: 45 , Epochs: 21 , Batch Size: 32 , Steps per RTC check: 1 0.983 --- naive naive 220 **─** linear **──** linear → sketch → sketch Cost (GB) 215 -0.982 -



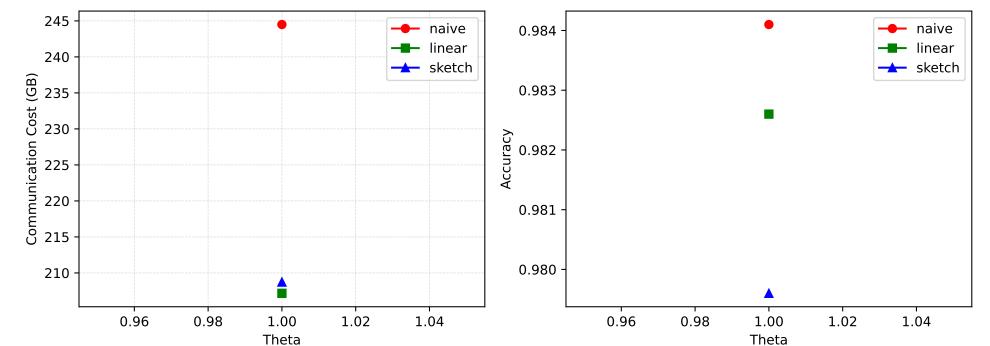
Clients: 45 , Epochs: 22 , Batch Size: 32 , Steps per RTC check: 1



Clients: 45 , Epochs: 23 , Batch Size: 32 , Steps per RTC check: 1



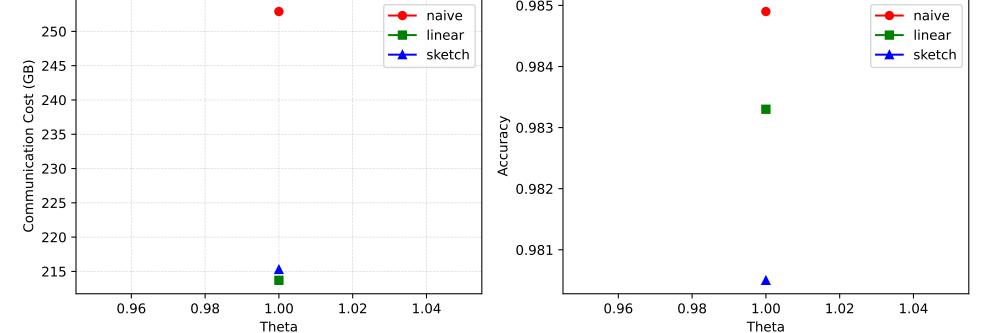
Clients: 45 , Epochs: 24 , Batch Size: 32 , Steps per RTC check: 1



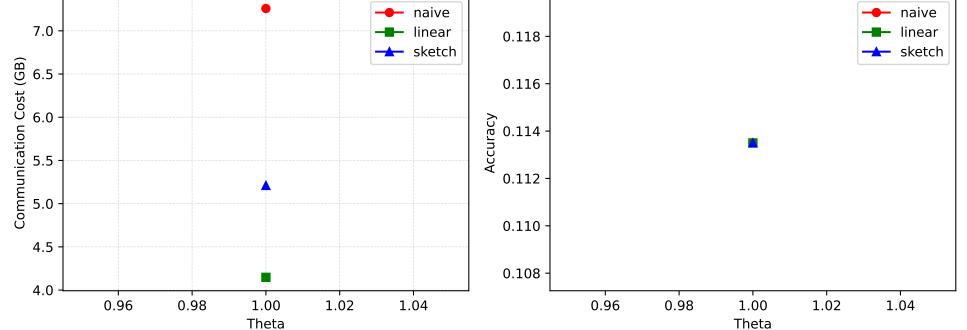
Clients: 45 , Epochs: 25 , Batch Size: 32 , Steps per RTC check: 1

O.985

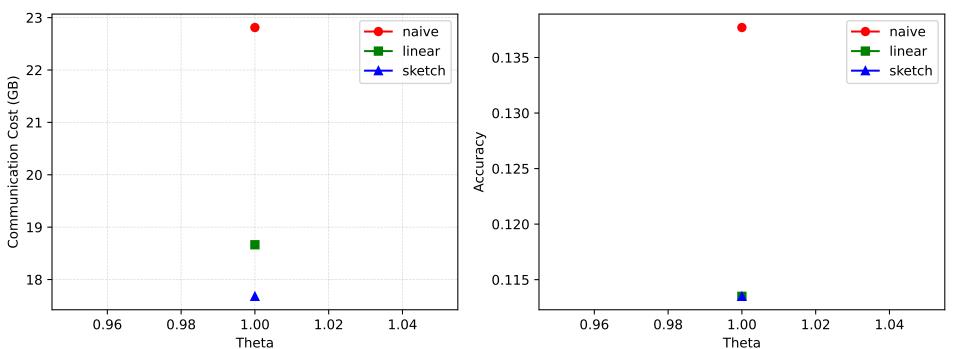
Innear



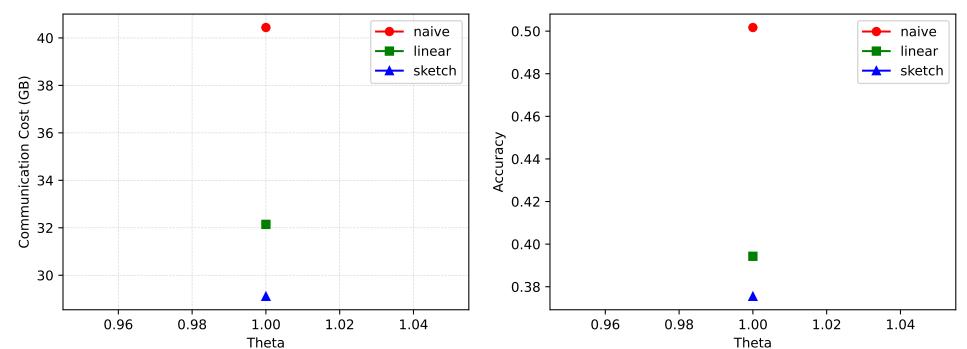
Clients: 50 , Epochs: 1 , Batch Size: 32 , Steps per RTC check: 1 naive 7.0 -**──** linear 0.118 -→ sketch



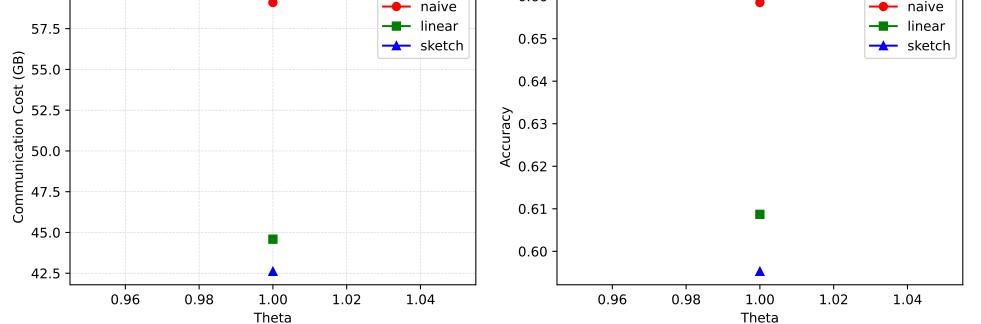
Clients: 50 , Epochs: 2 , Batch Size: 32 , Steps per RTC check: 1



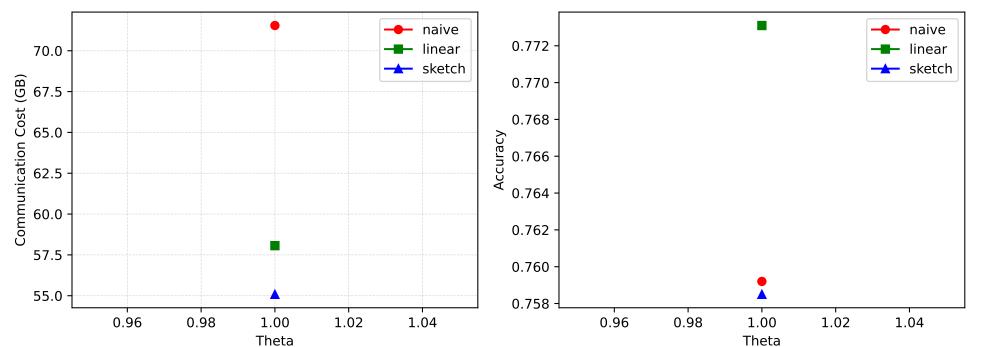
Clients: 50 , Epochs: 3 , Batch Size: 32 , Steps per RTC check: 1



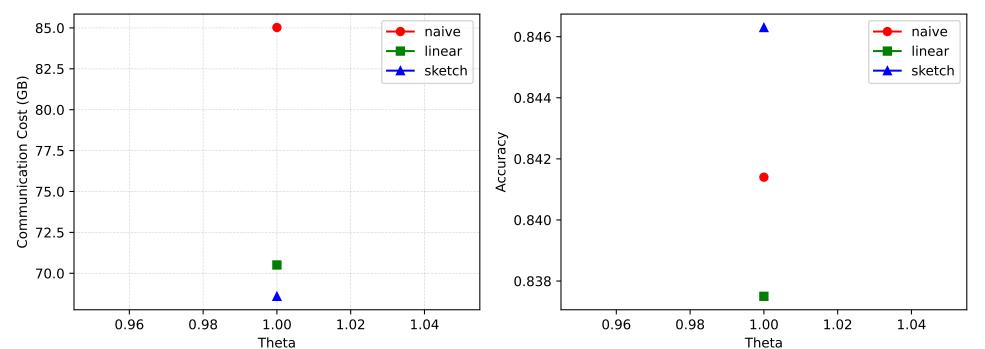
Clients: 50 , Epochs: 4 , Batch Size: 32 , Steps per RTC check: 1 0.66 naive -- naive **──** linear **──** linear 57.5 0.65 -→ sketch → sketch 0.64 -



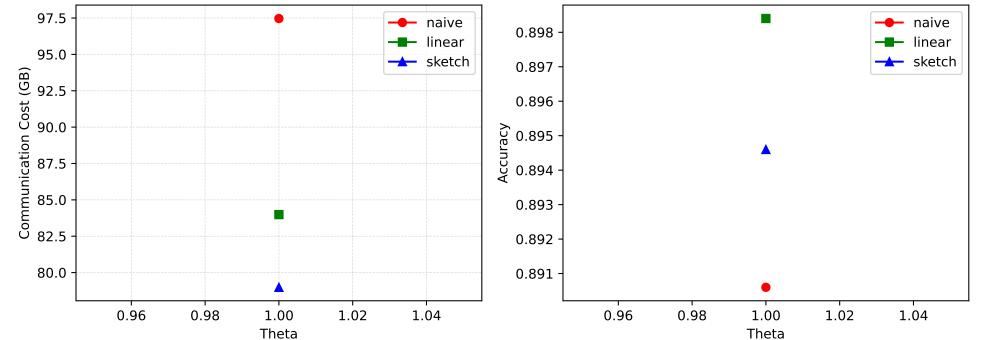
Clients: 50 , Epochs: 5 , Batch Size: 32 , Steps per RTC check: 1



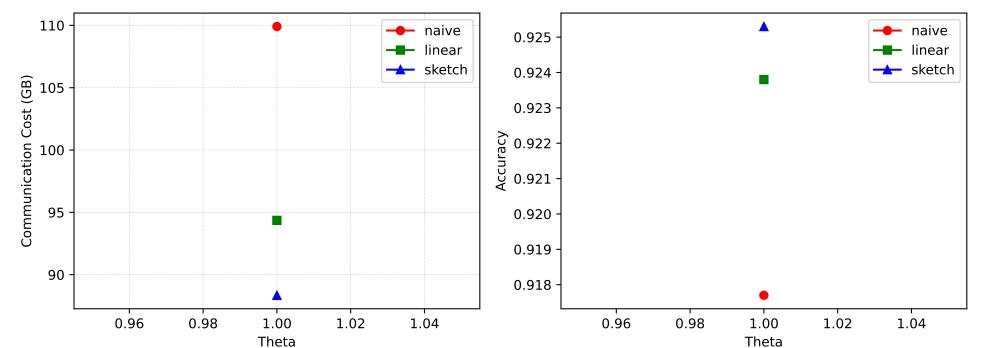
Clients: 50 , Epochs: 6 , Batch Size: 32 , Steps per RTC check: 1



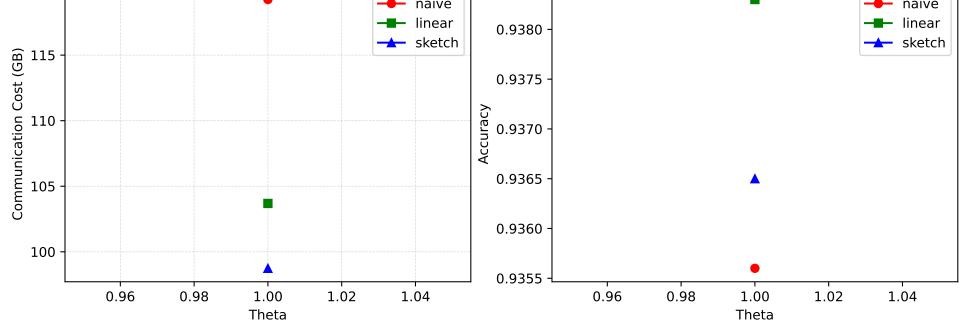
Clients: 50 , Epochs: 7 , Batch Size: 32 , Steps per RTC check: 1



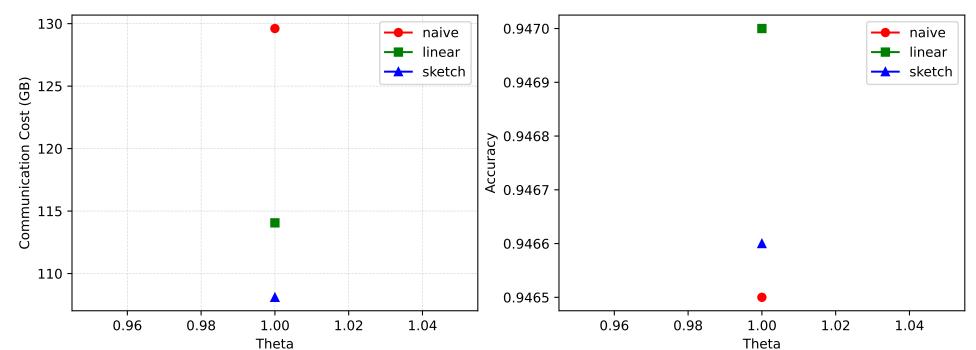
Clients: 50 , Epochs: 8 , Batch Size: 32 , Steps per RTC check: 1



Clients: 50 , Epochs: 9 , Batch Size: 32 , Steps per RTC check: 1 120 naive naive **──** linear 0.9380 -→ sketch



Clients: 50 , Epochs: 10 , Batch Size: 32 , Steps per RTC check: 1



Clients: 50 , Epochs: 11 , Batch Size: 32 , Steps per RTC check: 1 140 0.9545 -**—** naive naive **─** linear **──** linear → sketch → sketch Cost (GB) 130 0.9540 -Accuracy 130 -Communication 0.9530 -125 -0.9525 -120 -

0.96

0.98

1.00

Theta

1.02

1.04

0.9520 -

0.96

0.98

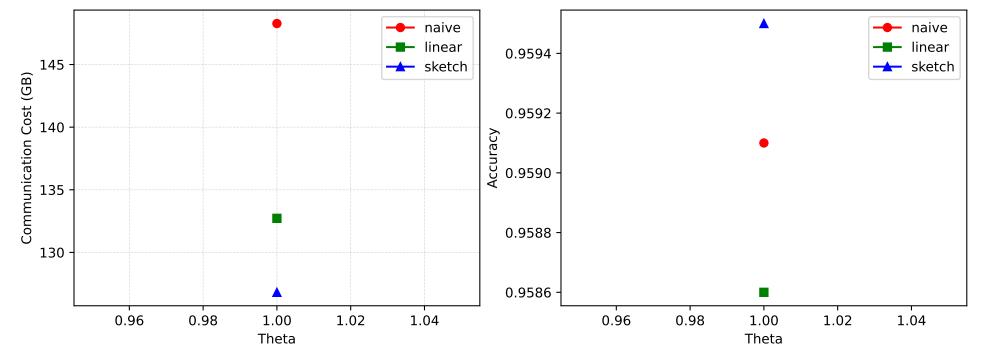
1.00

Theta

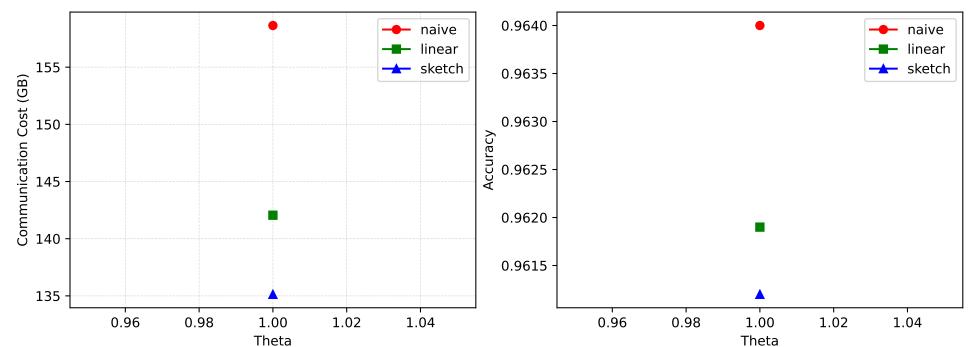
1.02

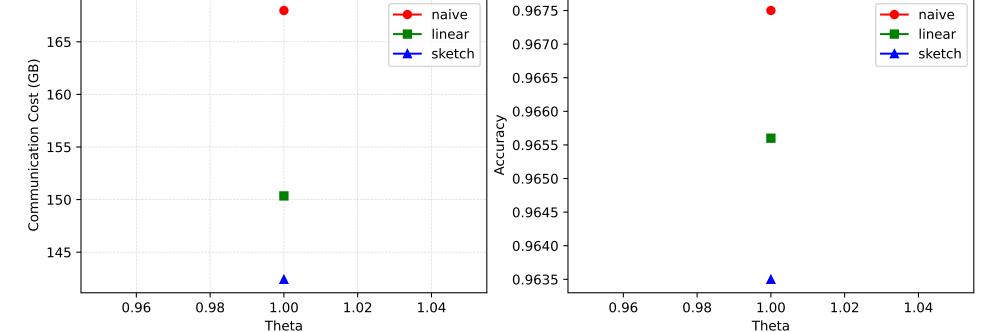
1.04

Clients: 50 , Epochs: 12 , Batch Size: 32 , Steps per RTC check: 1

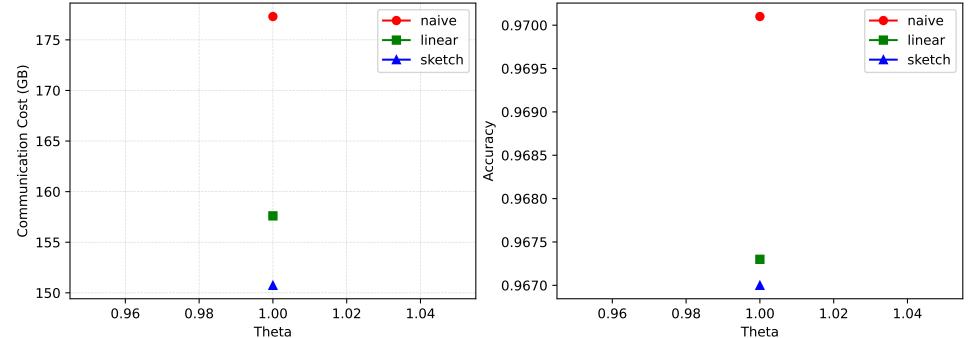


Clients: 50 , Epochs: 13 , Batch Size: 32 , Steps per RTC check: 1

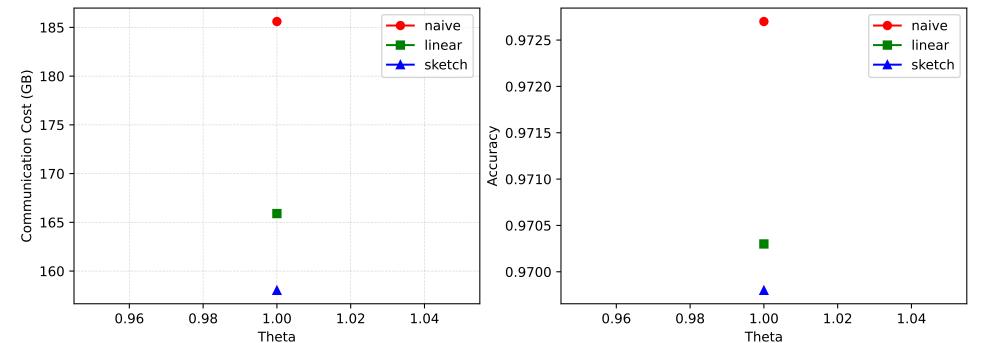




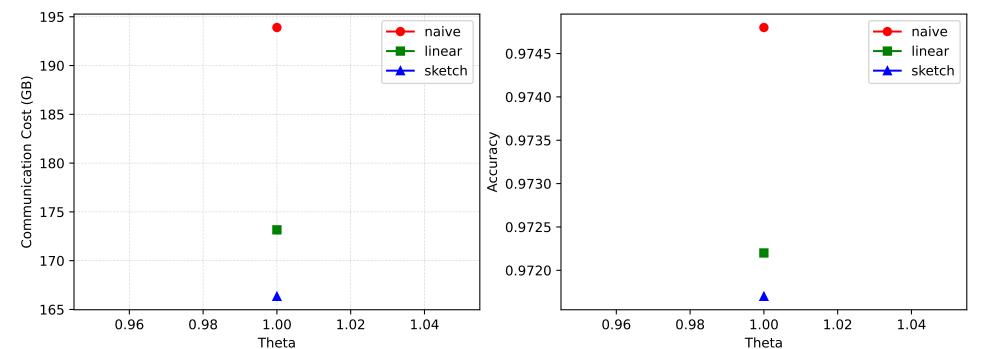
Clients: 50 , Epochs: 15 , Batch Size: 32 , Steps per RTC check: 1 naive 0.9700 -



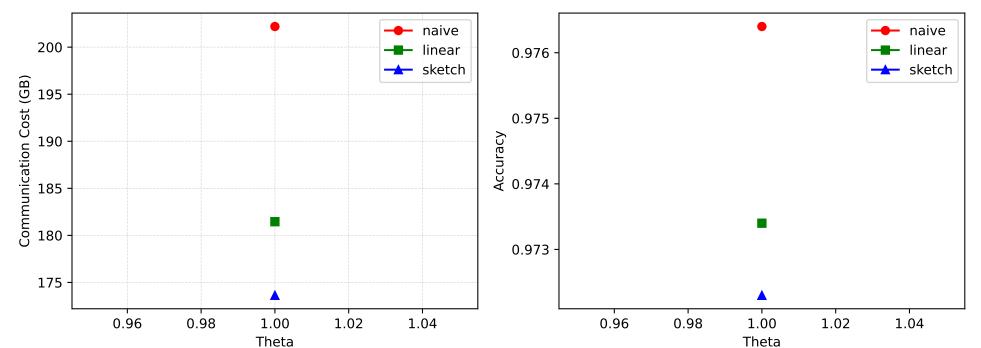
Clients: 50 , Epochs: 16 , Batch Size: 32 , Steps per RTC check: 1



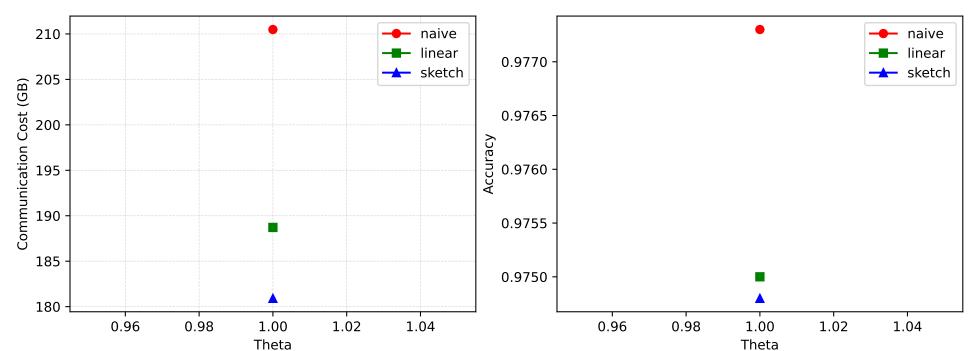
Clients: 50 , Epochs: 17 , Batch Size: 32 , Steps per RTC check: 1



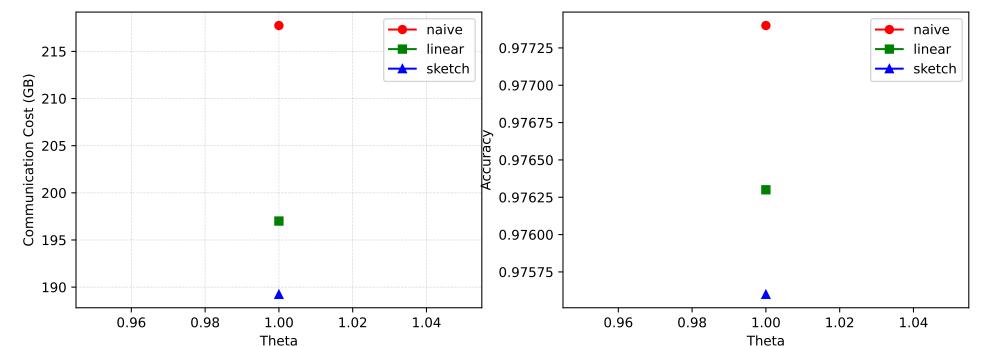
Clients: 50 , Epochs: 18 , Batch Size: 32 , Steps per RTC check: 1



Clients: 50 , Epochs: 19 , Batch Size: 32 , Steps per RTC check: 1

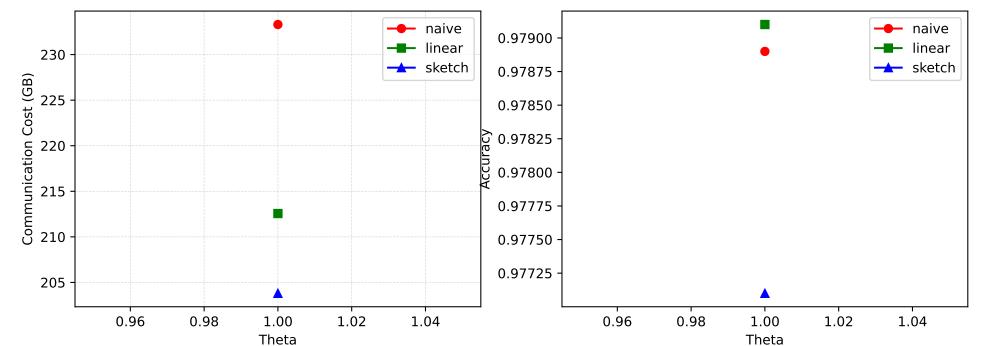


Clients: 50 , Epochs: 20 , Batch Size: 32 , Steps per RTC check: 1

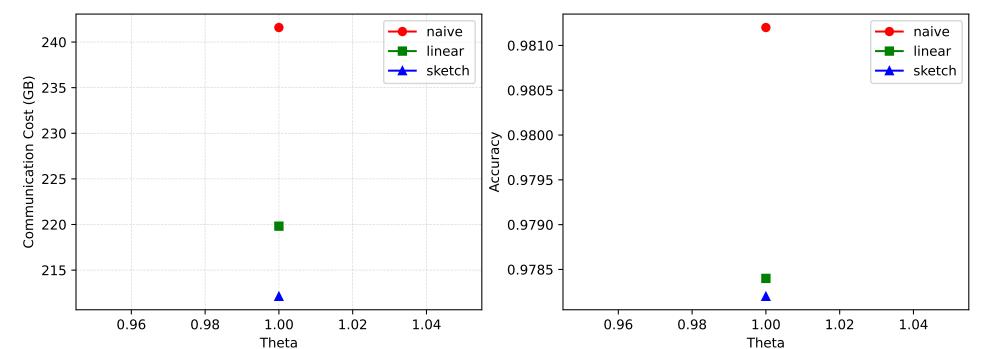


Clients: 50 , Epochs: 21 , Batch Size: 32 , Steps per RTC check: 1 0.9780 -- naive -- naive 225 **─** linear **──** linear → sketch → sketch 0.9775 -(gg) 220 -Accuracy - 0776.0 Communication 210 -0.9765 -205 0.9760 -200 -0.96 0.98 1.02 1.04 0.96 0.98 1.00 1.02 1.04 1.00 Theta Theta

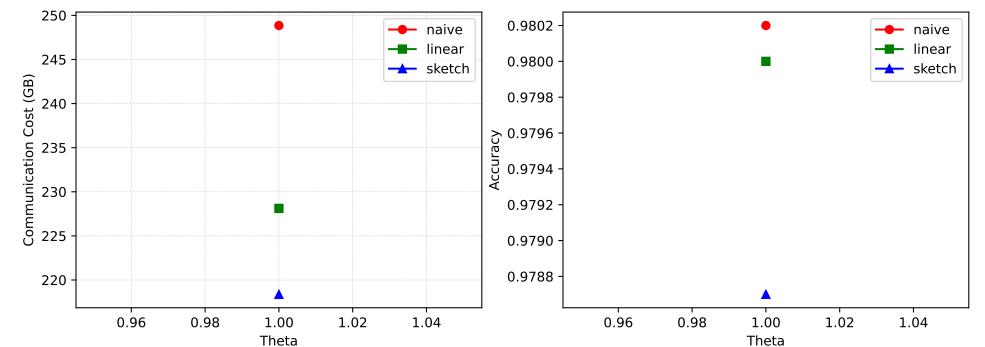
Clients: 50 , Epochs: 22 , Batch Size: 32 , Steps per RTC check: 1



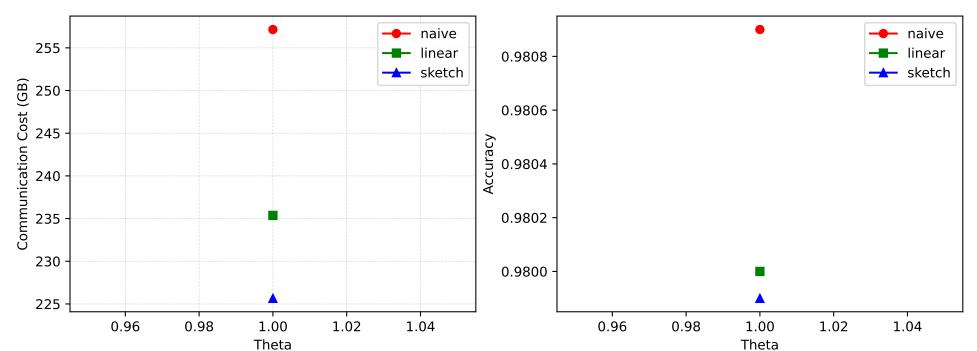
Clients: 50 , Epochs: 23 , Batch Size: 32 , Steps per RTC check: 1



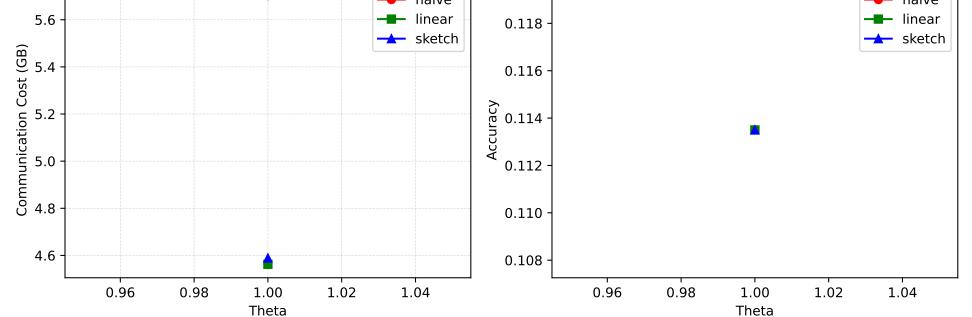
Clients: 50 , Epochs: 24 , Batch Size: 32 , Steps per RTC check: 1



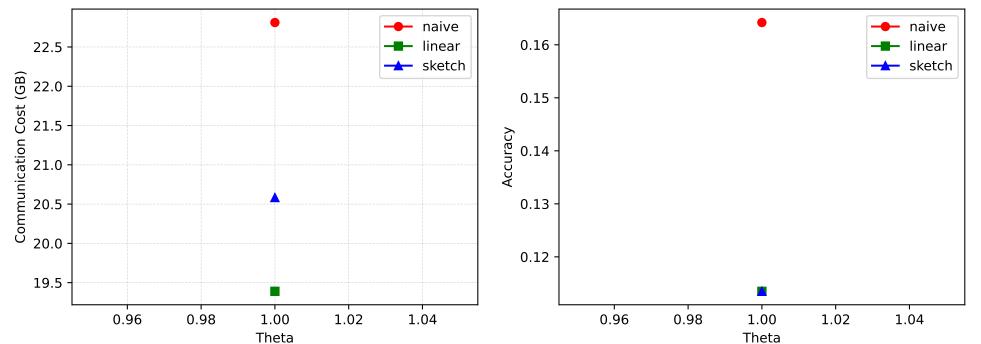
Clients: 50 , Epochs: 25 , Batch Size: 32 , Steps per RTC check: 1



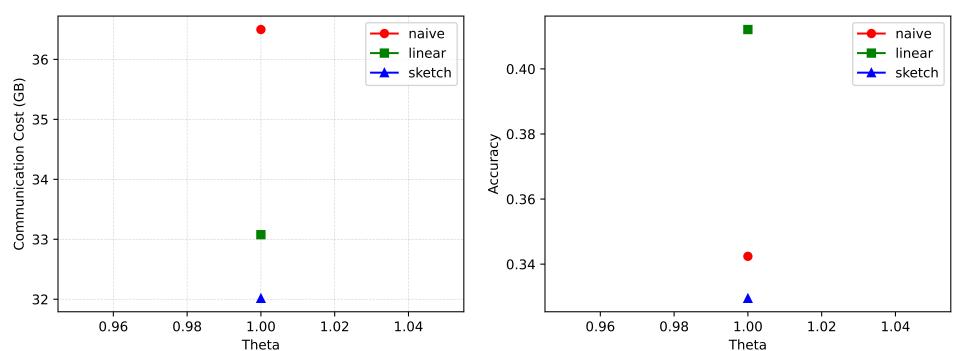
Clients: 55 , Epochs: 1 , Batch Size: 32 , Steps per RTC check: 1 naive naive 5.6 --- linear **──** linear 0.118 -→ sketch → sketch 0.116 -



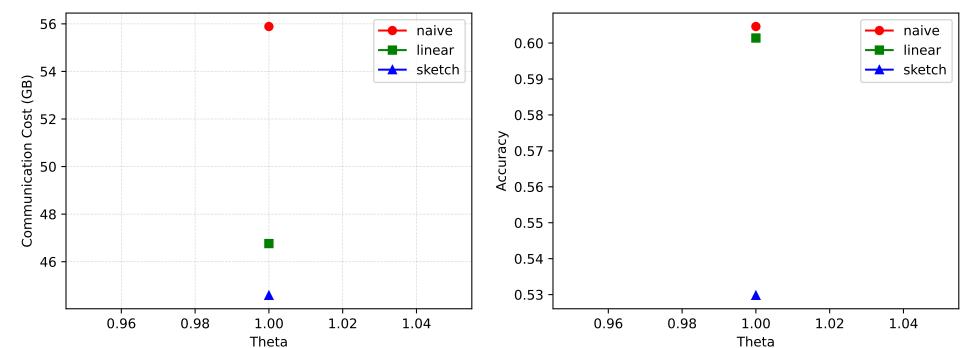
Clients: 55 , Epochs: 2 , Batch Size: 32 , Steps per RTC check: 1



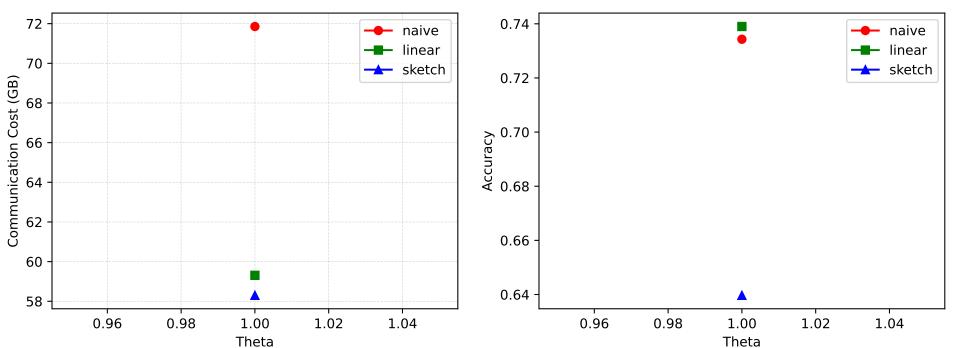
Clients: 55 , Epochs: 3 , Batch Size: 32 , Steps per RTC check: 1



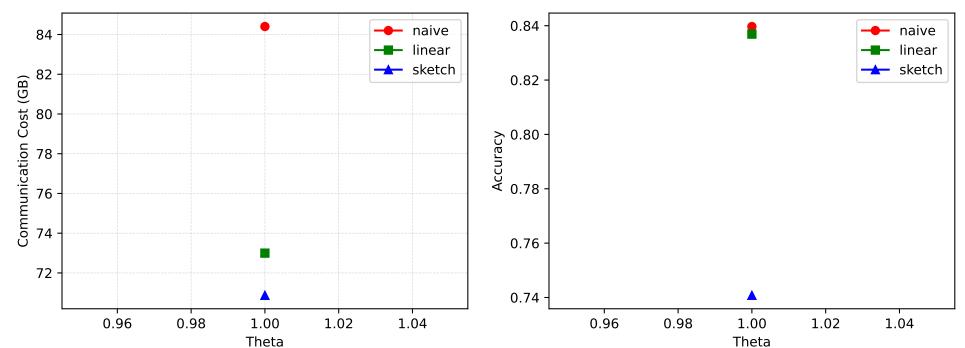
Clients: 55 , Epochs: 4 , Batch Size: 32 , Steps per RTC check: 1



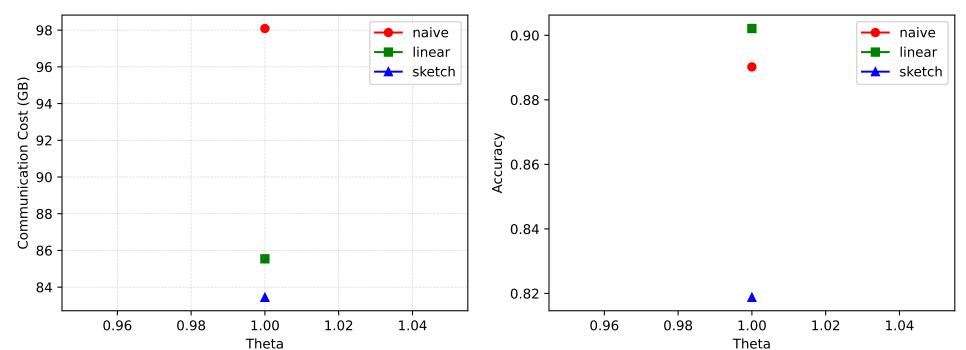
Clients: 55 , Epochs: 5 , Batch Size: 32 , Steps per RTC check: 1



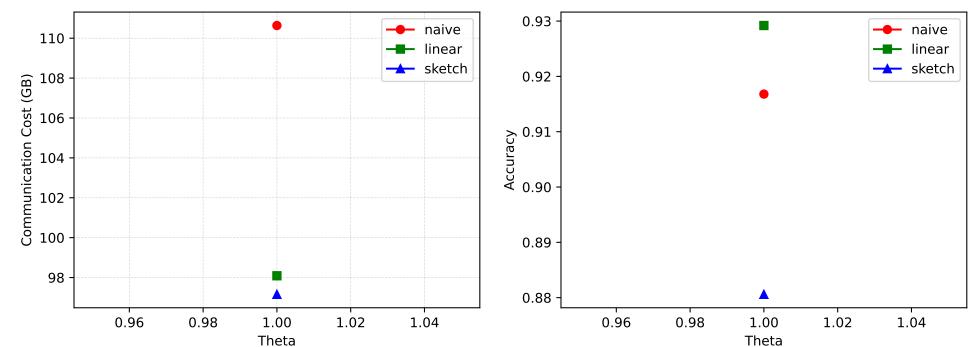
Clients: 55 , Epochs: 6 , Batch Size: 32 , Steps per RTC check: 1



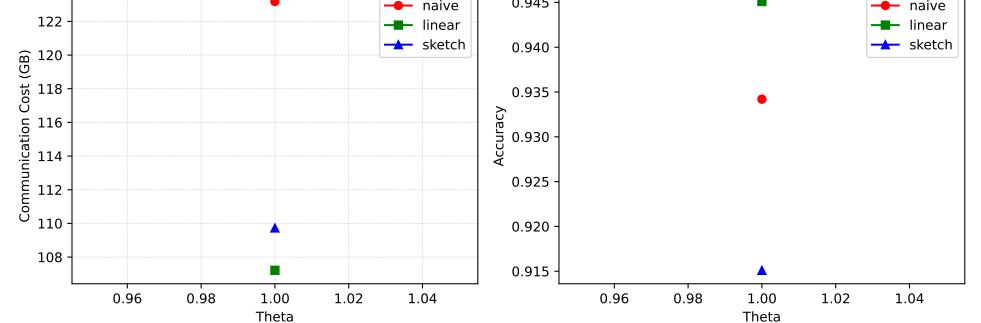
Clients: 55 , Epochs: 7 , Batch Size: 32 , Steps per RTC check: 1



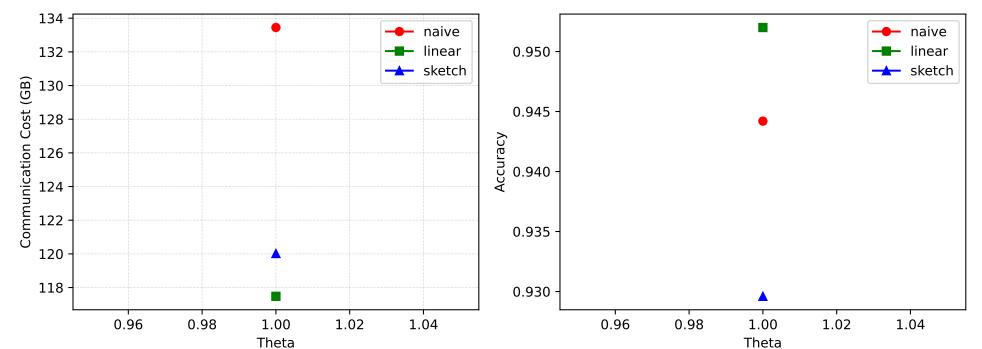
Clients: 55 , Epochs: 8 , Batch Size: 32 , Steps per RTC check: 1



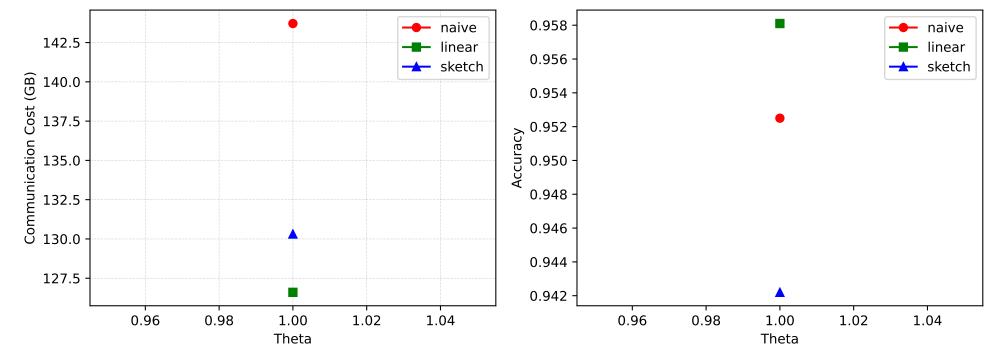
Clients: 55 , Epochs: 9 , Batch Size: 32 , Steps per RTC check: 1 0.945 naive naive 122 **──** linear **──** linear → sketch → sketch 0.940 -(a) 120 ts 00 -0.935 -



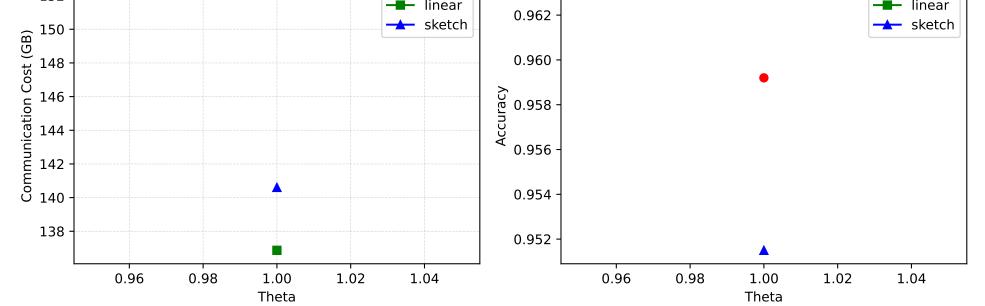
Clients: 55 , Epochs: 10 , Batch Size: 32 , Steps per RTC check: 1



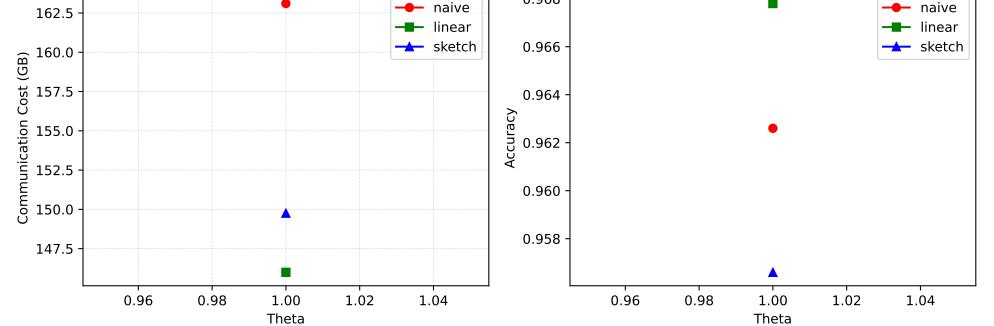
Clients: 55 , Epochs: 11 , Batch Size: 32 , Steps per RTC check: 1



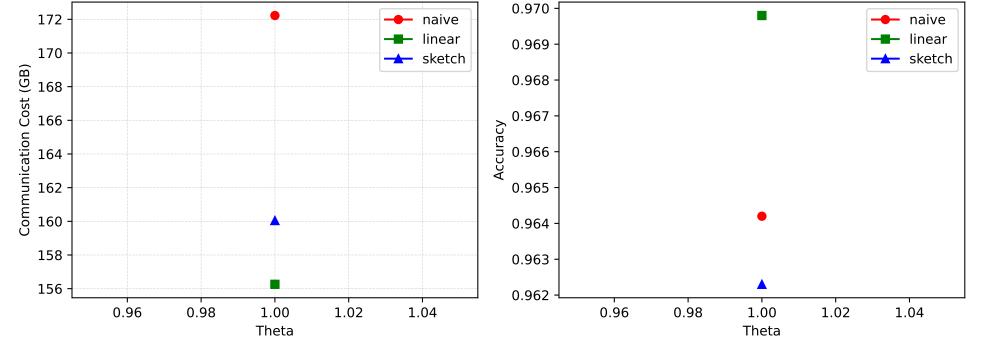
Clients: 55 , Epochs: 12 , Batch Size: 32 , Steps per RTC check: 1 0.964 naive -- naive 152 **─** linear **──** linear 0.962 -→ sketch tso (08) 148 → sketch 0.960 -Accuracy - 856.0 146 - 144 - 142 - 140 - 146 -0.956 -0.954 -138 0.952 -



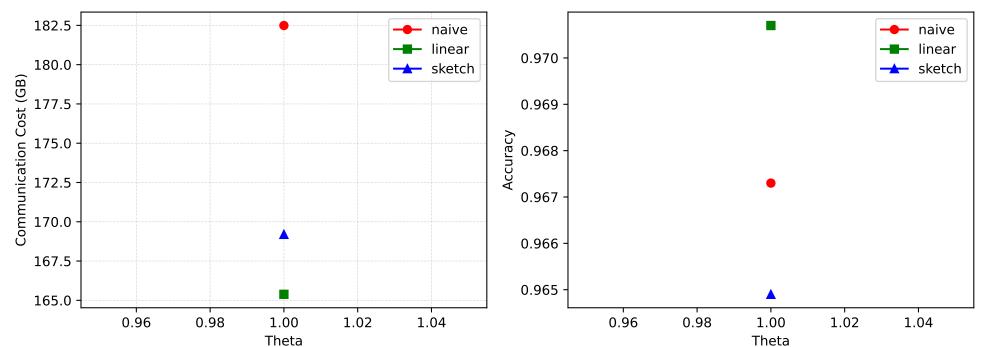
Clients: 55 , Epochs: 13 , Batch Size: 32 , Steps per RTC check: 1 0.968 --- naive naive 162.5 **─** linear **──** linear → sketch → sketch 0.966 -(B) 160.0 ts 157.5 -0.964 -Accuracy - 296.0 0.960 -



Clients: 55 , Epochs: 14 , Batch Size: 32 , Steps per RTC check: 1 0.970 -172 naive



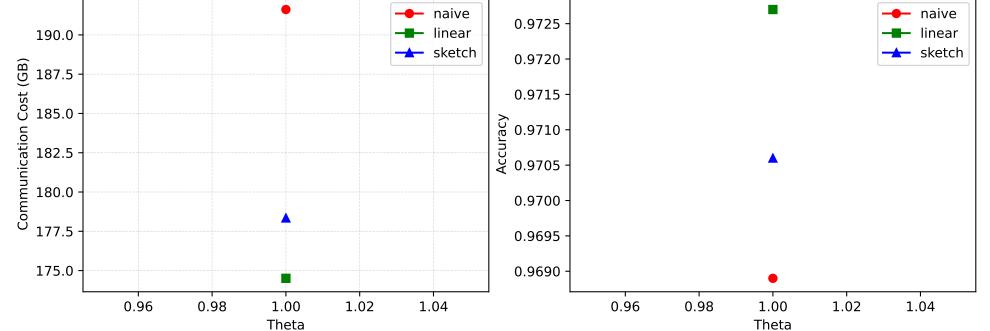
Clients: 55 , Epochs: 15 , Batch Size: 32 , Steps per RTC check: 1



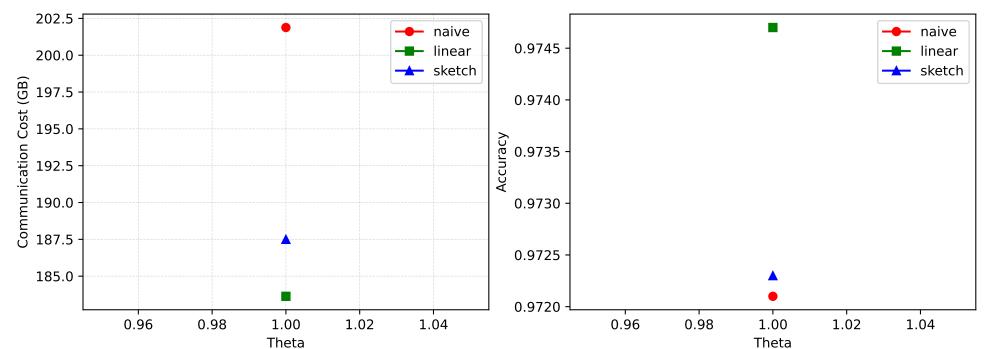
Clients: 55 , Epochs: 16 , Batch Size: 32 , Steps per RTC check: 1

naive
linear

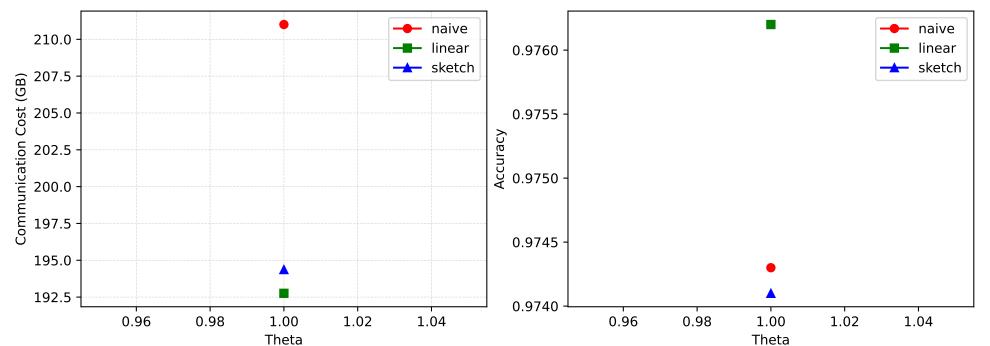
0.9725



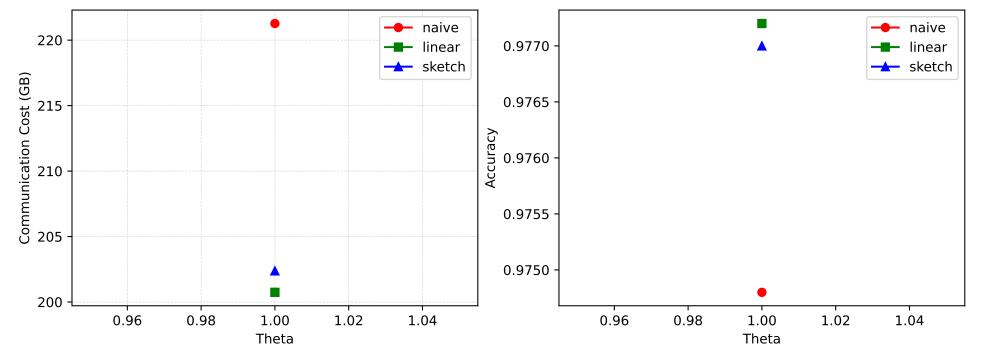
Clients: 55 , Epochs: 17 , Batch Size: 32 , Steps per RTC check: 1



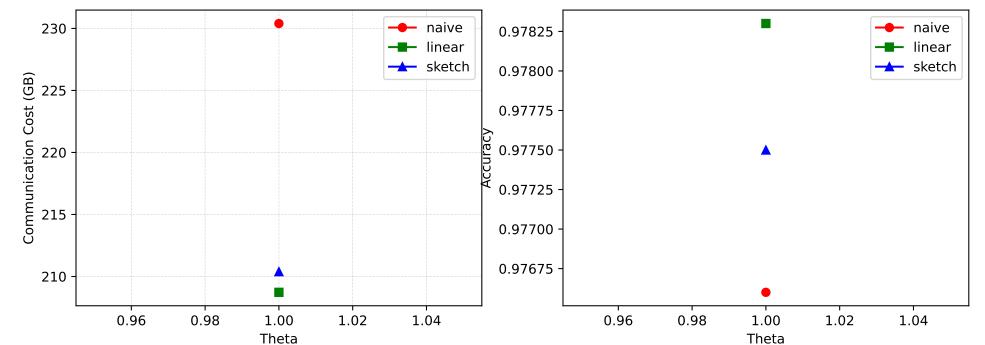
Clients: 55 , Epochs: 18 , Batch Size: 32 , Steps per RTC check: 1



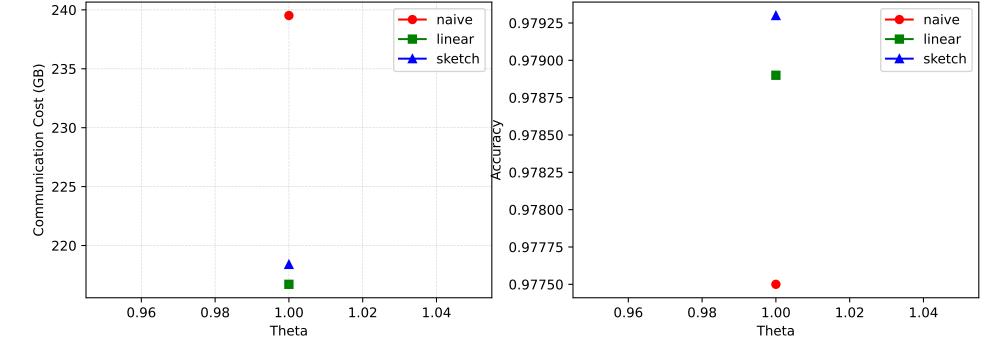
Clients: 55 , Epochs: 19 , Batch Size: 32 , Steps per RTC check: 1



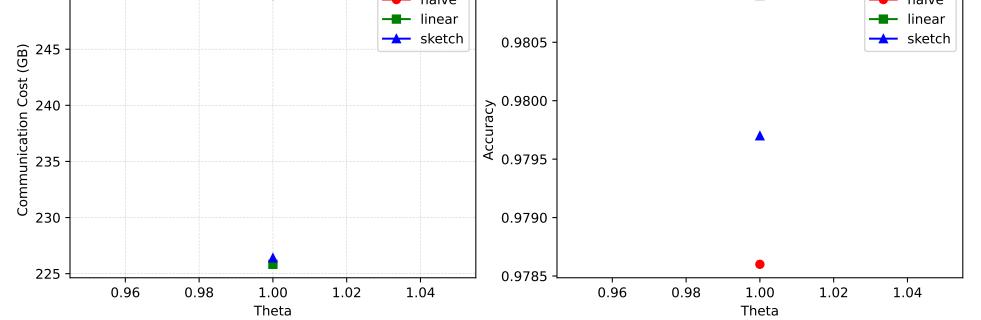
Clients: 55 , Epochs: 20 , Batch Size: 32 , Steps per RTC check: 1



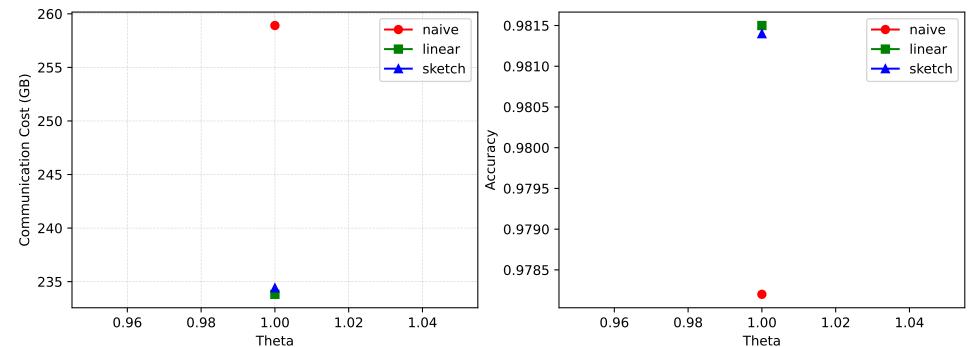
Clients: 55 , Epochs: 21 , Batch Size: 32 , Steps per RTC check: 1



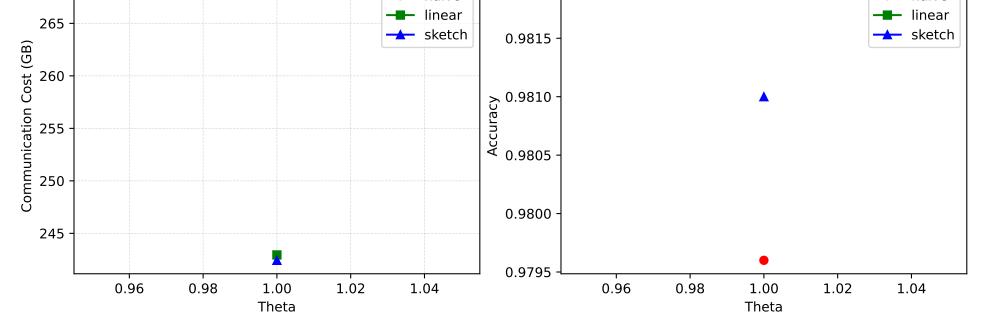
Clients: 55 , Epochs: 22 , Batch Size: 32 , Steps per RTC check: 1 0.9810 250 naive naive **──** linear **──** linear → sketch → sketch 0.9805 -Cost (GB) 245 - 240 -Accuracy Pccuracy - 0.989.0 240 -235 -



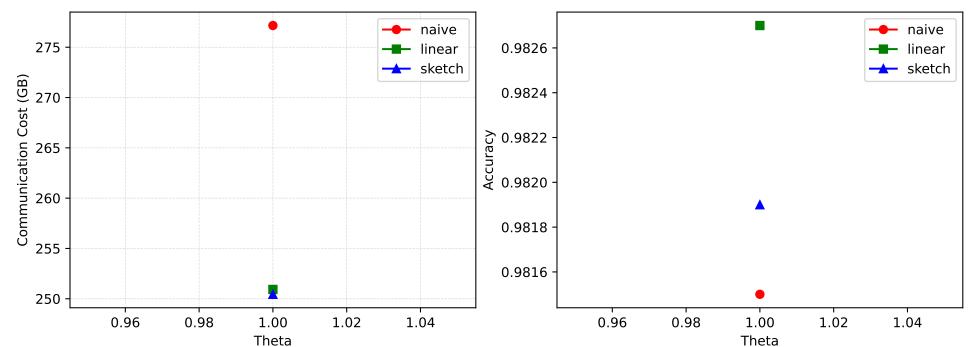
Clients: 55 , Epochs: 23 , Batch Size: 32 , Steps per RTC check: 1



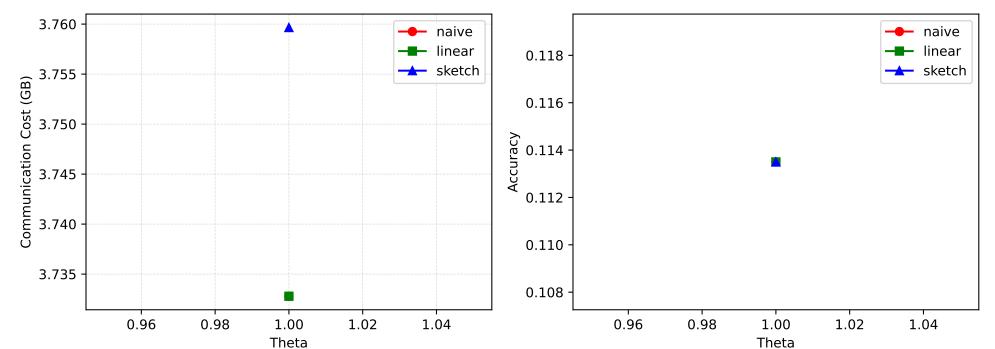
Clients: 55 , Epochs: 24 , Batch Size: 32 , Steps per RTC check: 1 0.9820 naive naive **──** linear **──** linear 265 → sketch → sketch 0.9815 -(GB) 260 -Accuracy Accuracy - 0.980.0 -255 -



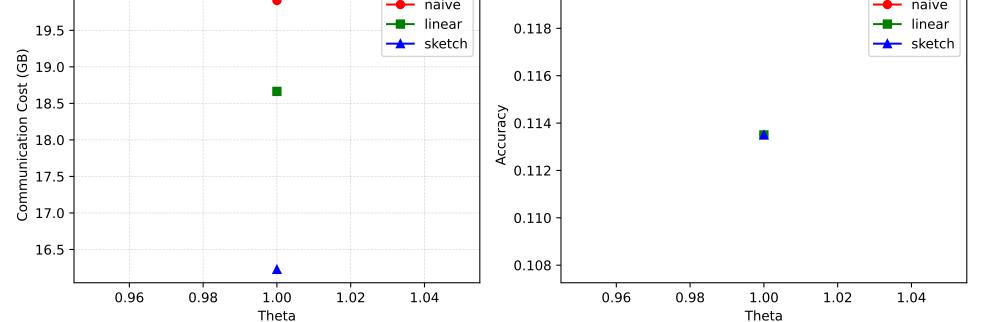
Clients: 55 , Epochs: 25 , Batch Size: 32 , Steps per RTC check: 1



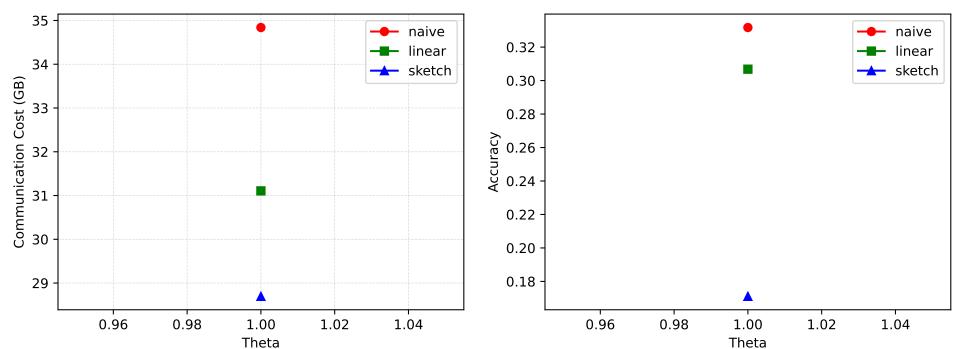
Clients: 60 , Epochs: 1 , Batch Size: 32 , Steps per RTC check: 1



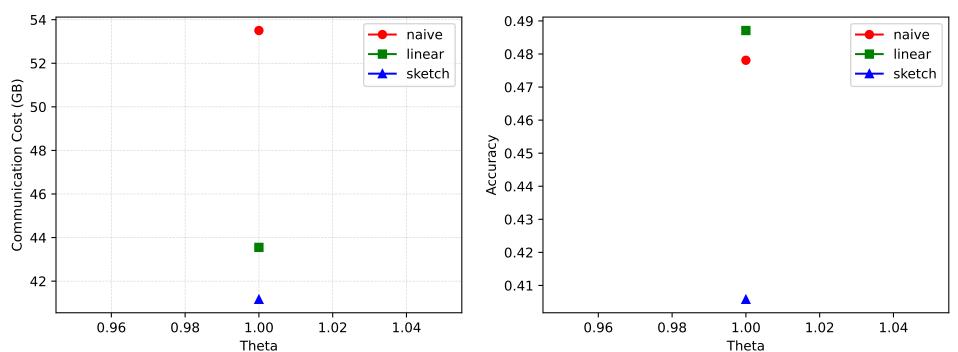
Clients: 60 , Epochs: 2 , Batch Size: 32 , Steps per RTC check: 1 20.0 naive -- naive **──** linear **──** linear 0.118 -→ sketch → sketch 0.116 -



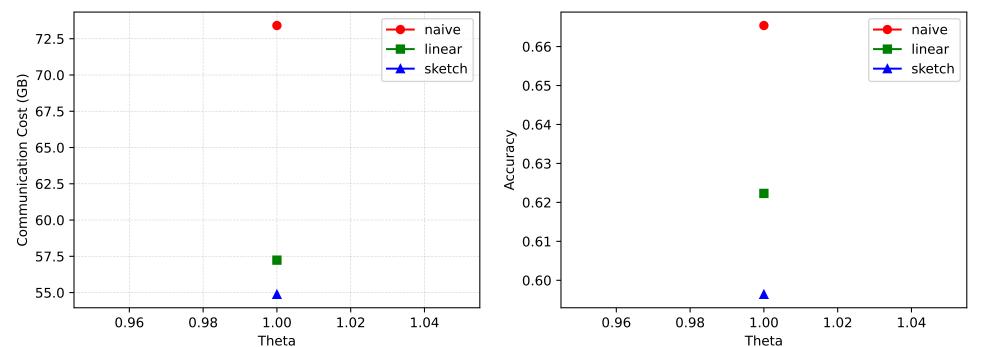
Clients: 60 , Epochs: 3 , Batch Size: 32 , Steps per RTC check: 1



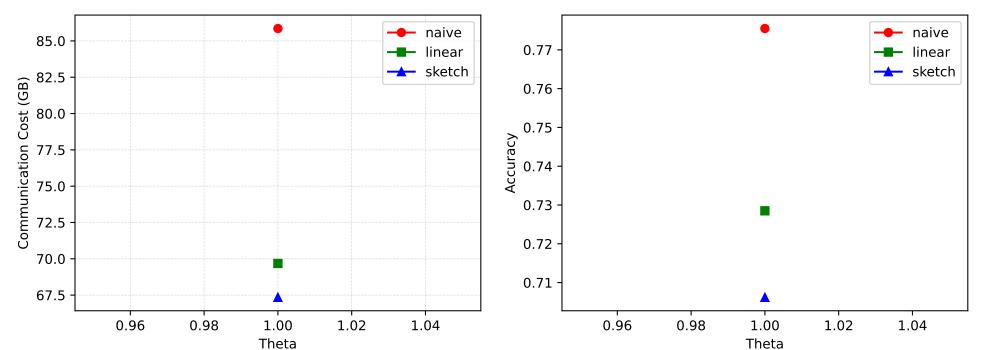
Clients: 60 , Epochs: 4 , Batch Size: 32 , Steps per RTC check: 1



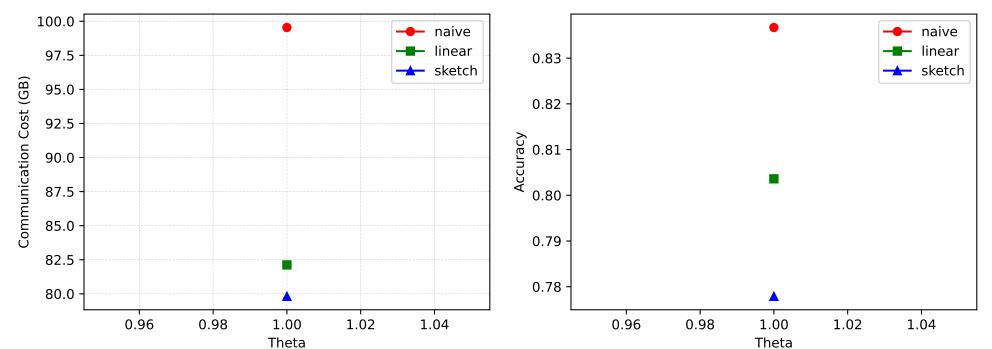
Clients: 60 , Epochs: 5 , Batch Size: 32 , Steps per RTC check: 1



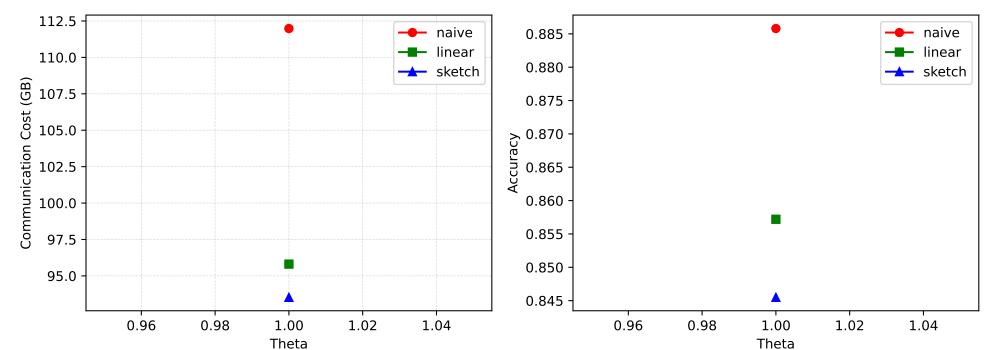
Clients: 60 , Epochs: 6 , Batch Size: 32 , Steps per RTC check: 1



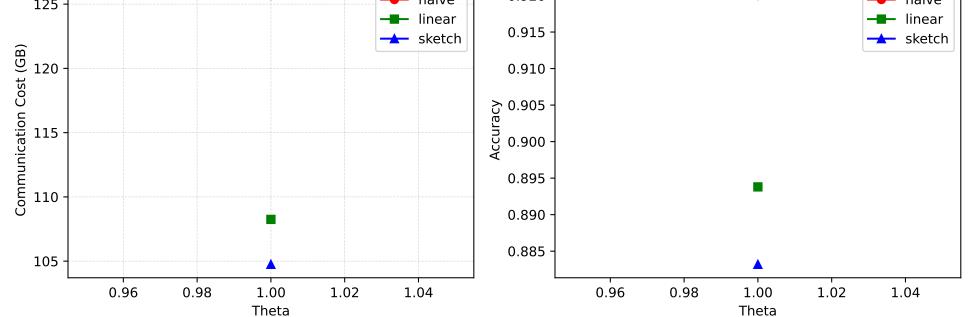
Clients: 60 , Epochs: 7 , Batch Size: 32 , Steps per RTC check: 1



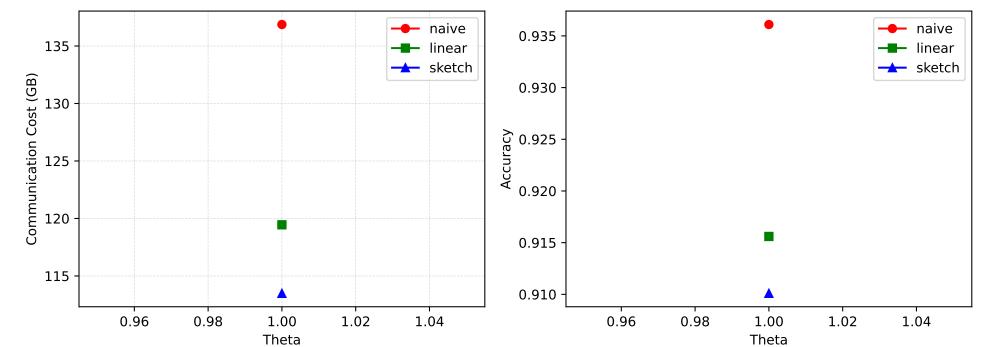
Clients: 60 , Epochs: 8 , Batch Size: 32 , Steps per RTC check: 1



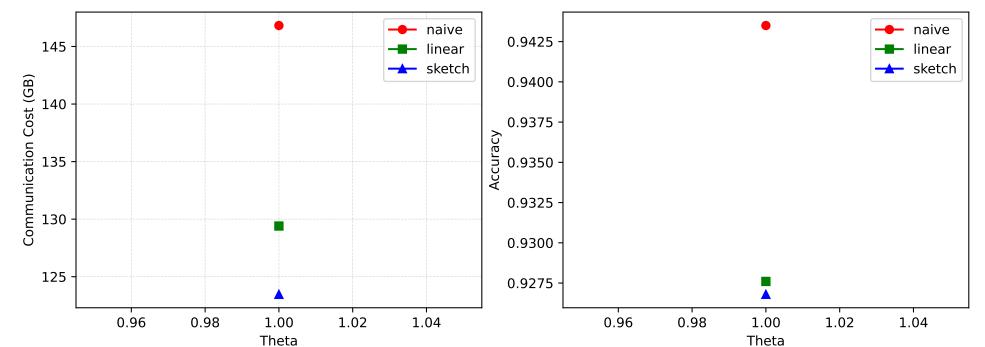
Clients: 60 , Epochs: 9 , Batch Size: 32 , Steps per RTC check: 1 0.920 --- naive naive 125 **─** linear 0.915 -→ sketch



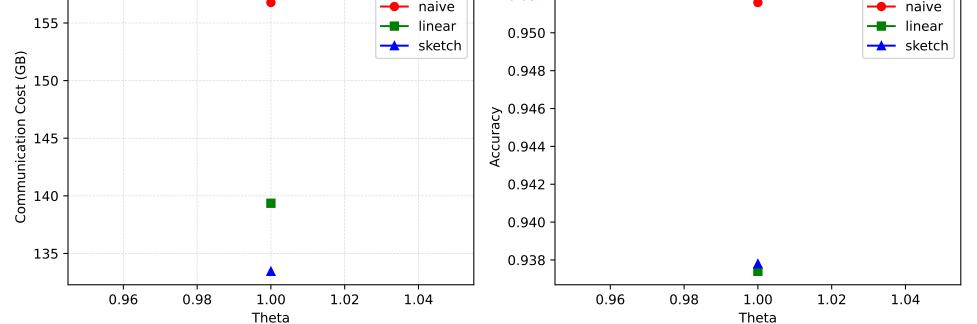
Clients: 60 , Epochs: 10 , Batch Size: 32 , Steps per RTC check: 1



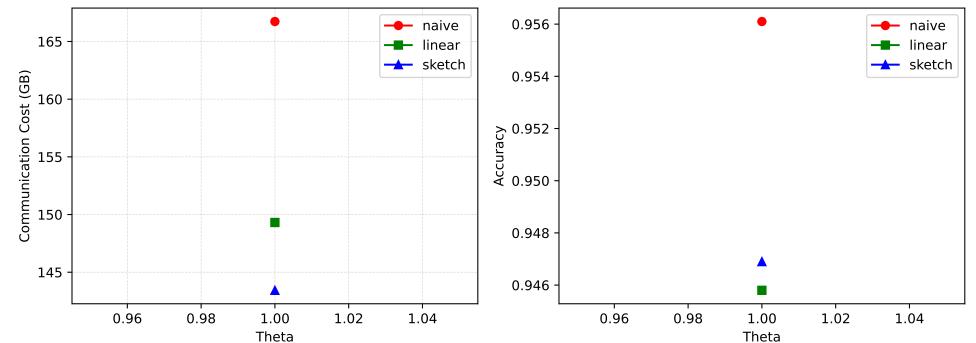
Clients: 60 , Epochs: 11 , Batch Size: 32 , Steps per RTC check: 1



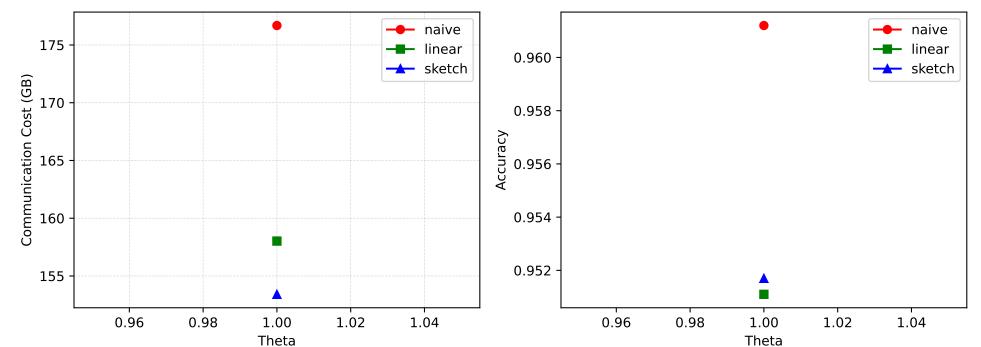
Clients: 60 , Epochs: 12 , Batch Size: 32 , Steps per RTC check: 1 0.952 naive naive 155 -**──** linear **──** linear 0.950 -→ sketch → sketch 0.948 -



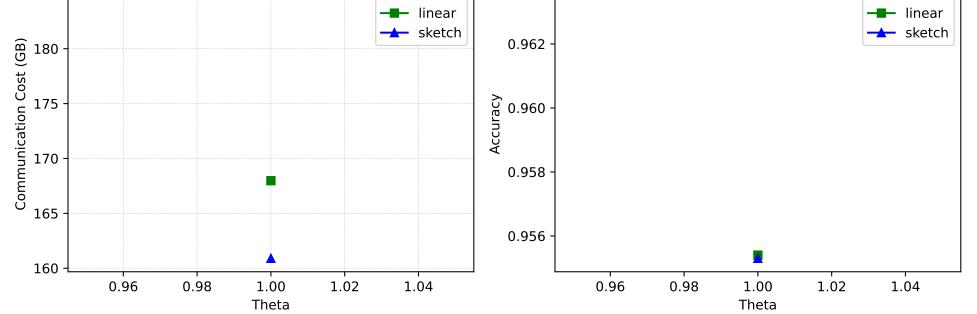
Clients: 60 , Epochs: 13 , Batch Size: 32 , Steps per RTC check: 1



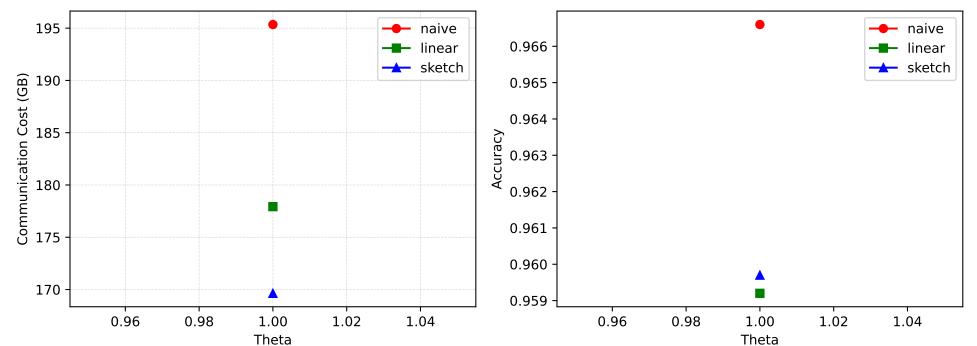
Clients: 60 , Epochs: 14 , Batch Size: 32 , Steps per RTC check: 1



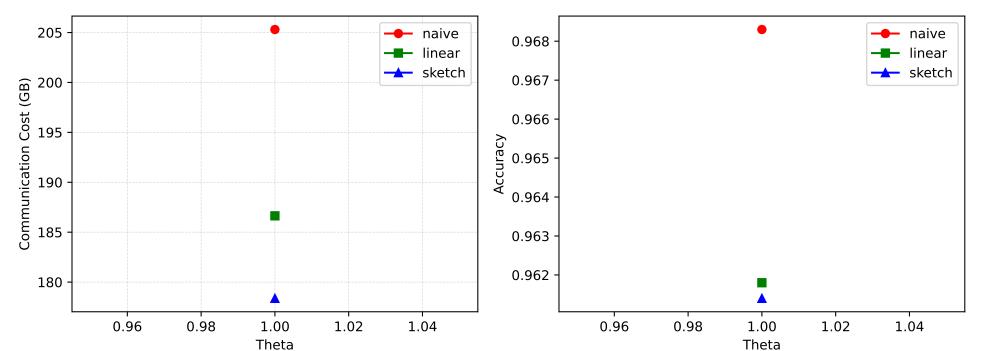
Clients: 60 , Epochs: 15 , Batch Size: 32 , Steps per RTC check: 1 0.964 --- naive -- naive 185 **─** linear **──** linear → sketch → sketch (dB) 180 · 0.962 -Accuracy - 096.0 175 -



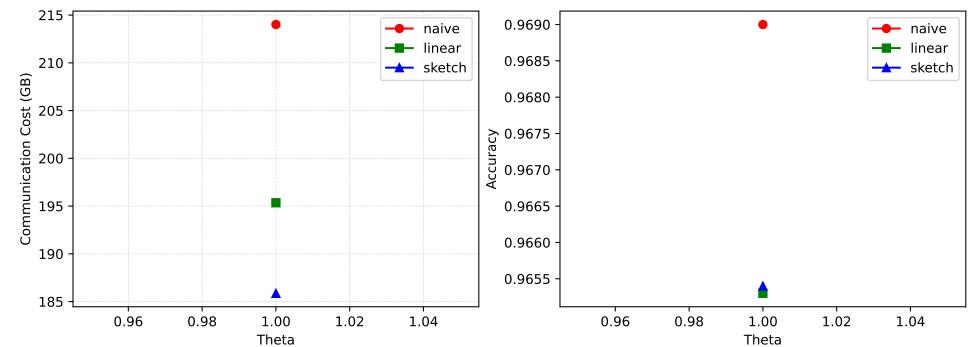
Clients: 60 , Epochs: 16 , Batch Size: 32 , Steps per RTC check: 1



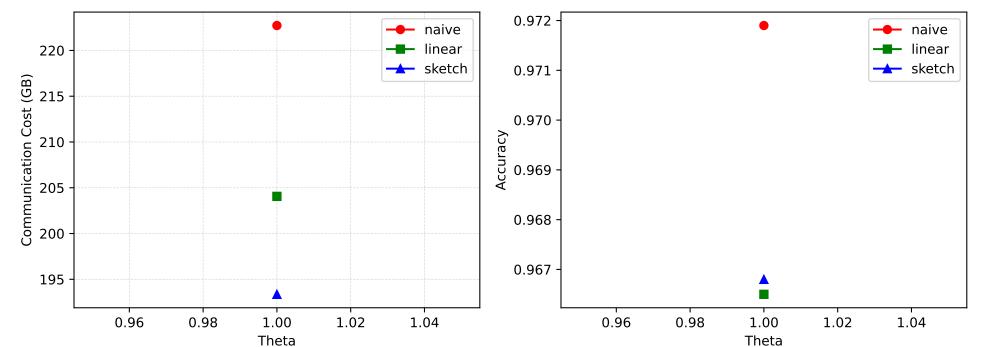
Clients: 60 , Epochs: 17 , Batch Size: 32 , Steps per RTC check: 1



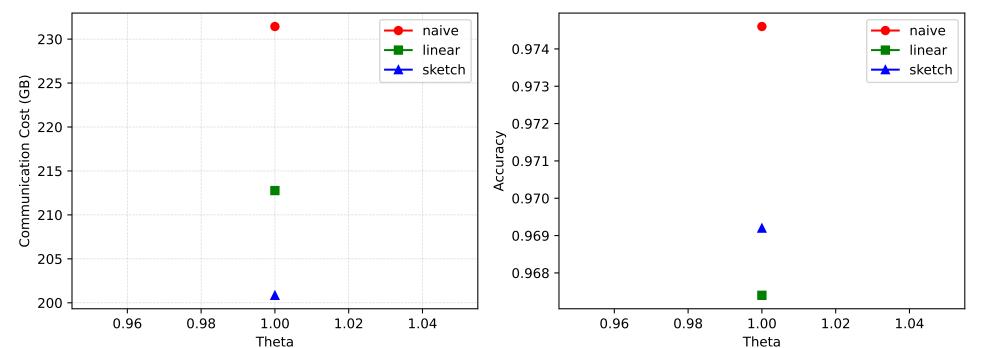
Clients: 60 , Epochs: 18 , Batch Size: 32 , Steps per RTC check: 1



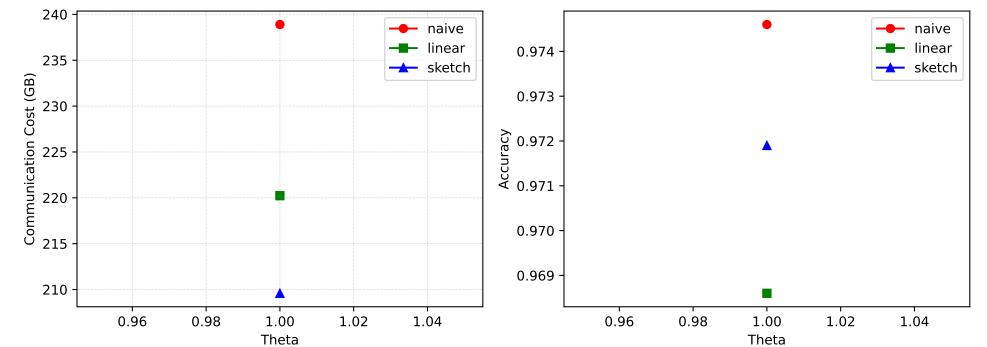
Clients: 60 , Epochs: 19 , Batch Size: 32 , Steps per RTC check: 1



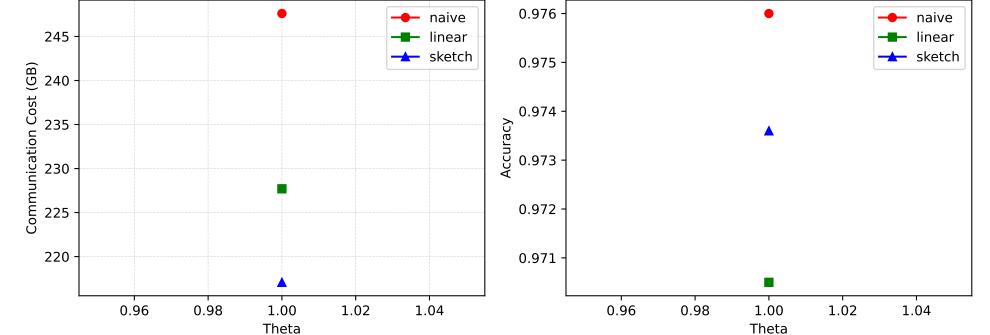
Clients: 60 , Epochs: 20 , Batch Size: 32 , Steps per RTC check: 1



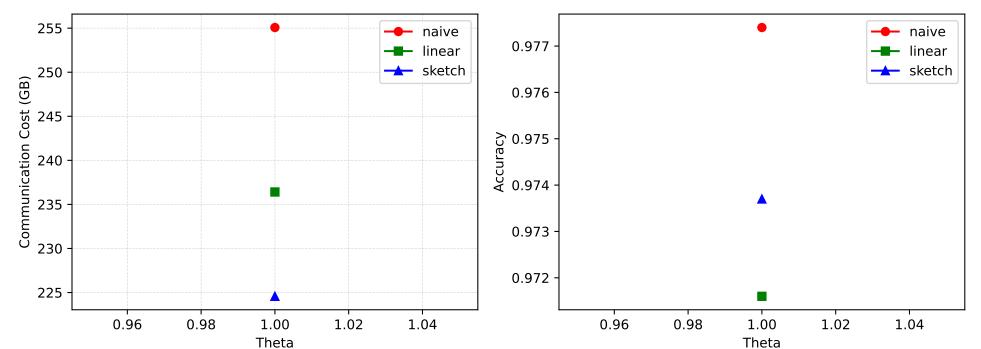
Clients: 60 , Epochs: 21 , Batch Size: 32 , Steps per RTC check: 1



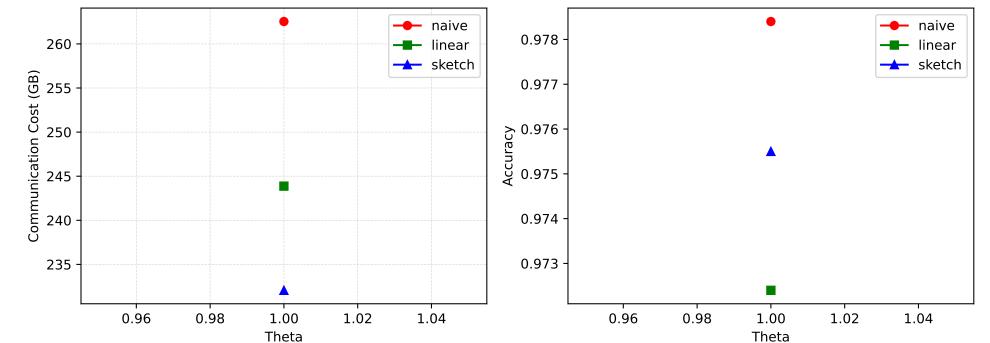
Clients: 60 , Epochs: 22 , Batch Size: 32 , Steps per RTC check: 1 0.976 naive 245 **──** linear



Clients: 60 , Epochs: 23 , Batch Size: 32 , Steps per RTC check: 1



Clients: 60 , Epochs: 24 , Batch Size: 32 , Steps per RTC check: 1



Clients: 60 , Epochs: 25 , Batch Size: 32 , Steps per RTC check: 1

