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UMS index: 19 SINR: 25.1545 instantThroughput: 2.0292e+07

UMS index: 20 SINR: 5.53186 instantThroughput: 9.95332e+06

UMS index: 21 SINR: 1.39074 instantThroughput: 4.5604e+06

UMS index: 22 SINR: 3.96196 instantThroughput: 7.67832e+06

UMS index: 23 SINR: 1.03214 instantThroughput: 3.12832e+06

UMS index: 24 SINR: 8.88405 instantThroughput: 1.25128e+07

UMS index: 25 SINR: 0.445417 instantThroughput: 1.21888e+06

UMS index: 26 SINR: 6.87758 instantThroughput: 1.25128e+07

UMS index: 27 SINR: 0.421052 instantThroughput: 1.21888e+06

UMS index: 28 SINR: 1.04843 instantThroughput: 3.12832e+06

UMS index: 29 SINR: 0.206169 instantThroughput: 0

UMS index: 30 SINR: 0.779283 instantThroughput: 3.12832e+06

UMS index: 31 SINR: 673.706 instantThroughput: 2.88844e+07

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UMS index: 39 SINR: 2.54282 instantThroughput: 6.11416e+06

UMS index: 40 SINR: 25.1775 instantThroughput: 1.7276e+07

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UMS index: 43 SINR: 1.55213 instantThroughput: 4.5604e+06

UMS index: 44 SINR: 9.97453 instantThroughput: 1.25128e+07

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UMS index: 46 SINR: 1.77947 instantThroughput: 6.11416e+06

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UMS index: 46 SINR: 1.47695 instantThroughput: 4.5604e+06

UMS index: 47 SINR: 0.208017 instantThroughput: 791960

UMS index: 48 SINR: 6.07297 instantThroughput: 9.95332e+06

UMS index: 49 SINR: 2.22633 instantThroughput: 6.11416e+06

UMS index: 50 SINR: 19.1749 instantThroughput: 1.7276e+07

UMS index: 51 SINR: 3.69001 instantThroughput: 7.67832e+06

UMS index: 52 SINR: 0.587224 instantThroughput: 1.9604e+06

UMS index: 53 SINR: 7.54482 instantThroughput: 1.25128e+07

UMS index: 54 SINR: 4.40702 instantThroughput: 9.95332e+06

UMS index: 55 SINR: 5.15297 instantThroughput: 9.95332e+06

UMS index: 56 SINR: 0.750634 instantThroughput: 3.12832e+06

UMS index: 0 SINR: 3.0253 instantThroughput: 7.67832e+06

UMS index: 1 SINR: 3.3498 instantThroughput: 7.67832e+06

UMS index: 2 SINR: 0.270085 instantThroughput: 1.21888e+06

UMS index: 3 SINR: 7.01075 instantThroughput: 1.25128e+07

UMS index: 4 SINR: 0.965325 instantThroughput: 3.12832e+06

UMS index: 5 SINR: 1.31182 instantThroughput: 4.5604e+06

UMS index: 6 SINR: 1.24969 instantThroughput: 4.5604e+06

UMS index: 7 SINR: 10.3041 instantThroughput: 1.25128e+07

UMS index: 8 SINR: 0.256726 instantThroughput: 791960

UMS index: 9 SINR: 5.92754 instantThroughput: 9.95332e+06

UMS index: 10 SINR: 0.883099 instantThroughput: 3.12832e+06

UMS index: 11 SINR: 1.03514 instantThroughput: 3.12832e+06

UMS index: 12 SINR: 32.7327 instantThroughput: 2.0292e+07

UMS index: 13 SINR: 4.77168 instantThroughput: 9.95332e+06

UMS index: 14 SINR: 13.0821 instantThroughput: 1.41986e+07

UMS index: 15 SINR: 0.658598 instantThroughput: 1.9604e+06

UMS index: 16 SINR: 3.80065 instantThroughput: 7.67832e+06

UMS index: 17 SINR: 14.3236 instantThroughput: 1.41986e+07

UMS index: 18 SINR: 0.391747 instantThroughput: 1.21888e+06

UMS index: 19 SINR: 24.6053 instantThroughput: 1.7276e+07

UMS index: 20 SINR: 2.53606 instantThroughput: 6.11416e+06

UMS index: 21 SINR: 1.58669 instantThroughput: 4.5604e+06

UMS index: 22 SINR: 4.43311 instantThroughput: 9.95332e+06

UMS index: 23 SINR: 1.11717 instantThroughput: 4.5604e+06

UMS index: 24 SINR: 12.8265 instantThroughput: 1.41986e+07

UMS index: 25 SINR: 0.560442 instantThroughput: 1.9604e+06

UMS index: 26 SINR: 4.53807 instantThroughput: 9.95332e+06

UMS index: 27 SINR: 0.432395 instantThroughput: 1.21888e+06

UMS index: 28 SINR: 1.58194 instantThroughput: 4.5604e+06

UMS index: 29 SINR: 0.214926 instantThroughput: 791960

UMS index: 30 SINR: 0.726892 instantThroughput: 3.12832e+06

UMS index: 31 SINR: 563.062 instantThroughput: 2.88844e+07

UMS index: 32 SINR: 2.52431 instantThroughput: 6.11416e+06

UMS index: 33 SINR: 12.8546 instantThroughput: 1.41986e+07

UMS index: 34 SINR: 1.99779 instantThroughput: 6.11416e+06

UMS index: 35 SINR: 3.72205 instantThroughput: 7.67832e+06

UMS index: 36 SINR: 100.751 instantThroughput: 2.6599e+07

UMS index: 37 SINR: 12.025 instantThroughput: 1.41986e+07

UMS index: 38 SINR: 1.60323 instantThroughput: 4.5604e+06

UMS index: 39 SINR: 4.51219 instantThroughput: 9.95332e+06

UMS index: 40 SINR: 27.8979 instantThroughput: 2.0292e+07

UMS index: 41 SINR: 11.6552 instantThroughput: 1.41986e+07

UMS index: 42 SINR: 24.6236 instantThroughput: 1.7276e+07

UMS index: 43 SINR: 2.0293 instantThroughput: 6.11416e+06

UMS index: 44 SINR: 16.802 instantThroughput: 1.7276e+07

UMS index: 45 SINR: 1.47473 instantThroughput: 4.5604e+06

UMS index: 46 SINR: 1.47695 instantThroughput: 4.5604e+06

UMS index: 47 SINR: 0.208017 instantThroughput: 791960

UMS index: 48 SINR: 6.07297 instantThroughput: 9.95332e+06

UMS index: 49 SINR: 2.22633 instantThroughput: 6.11416e+06

UMS index: 50 SINR: 19.1749 instantThroughput: 1.7276e+07

UMS index: 51 SINR: 3.69001 instantThroughput: 7.67832e+06

UMS index: 52 SINR: 0.587224 instantThroughput: 1.9604e+06

UMS index: 53 SINR: 7.54482 instantThroughput: 1.25128e+07

UMS index: 54 SINR: 4.40702 instantThroughput: 9.95332e+06

UMS index: 55 SINR: 5.15297 instantThroughput: 9.95332e+06

UMS index: 56 SINR: 0.750634 instantThroughput: 3.12832e+06

### Buffer和调度

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Simulation Start\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ID: 0 arrivaltime: 1

msBuffer: 0

ID: 1 arrivaltime: 2

msBuffer: 0

ID: 2 arrivaltime: 1

msBuffer: 0

ID: 3 arrivaltime: 1

msBuffer: 0

ID: 4 arrivaltime: 2

msBuffer: 0

ID: 5 arrivaltime: 1

msBuffer: 0

ID: 6 arrivaltime: 1

msBuffer: 0

ID: 7 arrivaltime: 1

msBuffer: 0

ID: 8 arrivaltime: 1

msBuffer: 0

ID: 9 arrivaltime: 1

msBuffer: 0

ID: 10 arrivaltime: 1

msBuffer: 0

ID: 11 arrivaltime: 1

msBuffer: 0

ID: 12 arrivaltime: 1

msBuffer: 0

ID: 13 arrivaltime: 1

msBuffer: 0

ID: 14 arrivaltime: 2

msBuffer: 0

ID: 15 arrivaltime: 1

msBuffer: 0

ID: 16 arrivaltime: 1

msBuffer: 0

ID: 17 arrivaltime: 2

msBuffer: 0

ID: 18 arrivaltime: 2

msBuffer: 0

ID: 19 arrivaltime: 1

msBuffer: 0

ID: 20 arrivaltime: 1

msBuffer: 0

ID: 21 arrivaltime: 3

msBuffer: 0

ID: 22 arrivaltime: 1

msBuffer: 0

ID: 23 arrivaltime: 1

msBuffer: 0

ID: 24 arrivaltime: 1

msBuffer: 0

ID: 25 arrivaltime: 1

msBuffer: 0

ID: 26 arrivaltime: 1

msBuffer: 0

ID: 27 arrivaltime: 1

msBuffer: 0

ID: 28 arrivaltime: 1

msBuffer: 0

ID: 29 arrivaltime: 2

msBuffer: 0

ID: 30 arrivaltime: 1

msBuffer: 0

ID: 31 arrivaltime: 1

msBuffer: 0

ID: 32 arrivaltime: 1

msBuffer: 0

ID: 33 arrivaltime: 2

msBuffer: 0

ID: 34 arrivaltime: 2

msBuffer: 0

ID: 35 arrivaltime: 1

msBuffer: 0

ID: 36 arrivaltime: 1

msBuffer: 0

ID: 37 arrivaltime: 1

msBuffer: 0

ID: 38 arrivaltime: 1

msBuffer: 0

ID: 39 arrivaltime: 1

msBuffer: 0

ID: 40 arrivaltime: 1

msBuffer: 0

ID: 41 arrivaltime: 1

msBuffer: 0

ID: 42 arrivaltime: 1

msBuffer: 0

ID: 43 arrivaltime: 1

msBuffer: 0

ID: 44 arrivaltime: 2

msBuffer: 0

ID: 45 arrivaltime: 5

msBuffer: 0

ID: 46 arrivaltime: 1

msBuffer: 0

ID: 47 arrivaltime: 2

msBuffer: 0

ID: 48 arrivaltime: 1

msBuffer: 0

ID: 49 arrivaltime: 3

msBuffer: 0

ID: 50 arrivaltime: 1

msBuffer: 0

ID: 51 arrivaltime: 4

msBuffer: 0

ID: 52 arrivaltime: 2

msBuffer: 0

ID: 53 arrivaltime: 1

msBuffer: 0

ID: 54 arrivaltime: 2

msBuffer: 0

ID: 55 arrivaltime: 2

msBuffer: 0

ID: 56 arrivaltime: 1

msBuffer: 0

[Scheduling]: Mobile Station CSI feedback

[Scheduling]: Base Station scheduling

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 0 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 0\*\*\*\*\*\*

ID: 0 arrivaltime: 2

msBuffer: 20000

ID: 1 arrivaltime: 2

msBuffer: 0

ID: 2 arrivaltime: 2

msBuffer: 20000

ID: 3 arrivaltime: 2

msBuffer: 20000

ID: 4 arrivaltime: 2

msBuffer: 0

ID: 5 arrivaltime: 2

msBuffer: 20000

ID: 6 arrivaltime: 2

msBuffer: 20000

ID: 7 arrivaltime: 3

msBuffer: 20000

ID: 8 arrivaltime: 2

msBuffer: 20000

ID: 9 arrivaltime: 2

msBuffer: 20000

ID: 10 arrivaltime: 2

msBuffer: 20000

ID: 11 arrivaltime: 3

msBuffer: 20000

ID: 12 arrivaltime: 3

msBuffer: 20000

ID: 13 arrivaltime: 2

msBuffer: 20000

ID: 14 arrivaltime: 2

msBuffer: 0

ID: 15 arrivaltime: 4

msBuffer: 20000

ID: 16 arrivaltime: 2

msBuffer: 20000

ID: 17 arrivaltime: 2

msBuffer: 0

ID: 18 arrivaltime: 2

msBuffer: 0

ID: 19 arrivaltime: 2

msBuffer: 20000

ID: 20 arrivaltime: 2

msBuffer: 20000

ID: 21 arrivaltime: 3

msBuffer: 0

ID: 22 arrivaltime: 2

msBuffer: 20000

ID: 23 arrivaltime: 2

msBuffer: 20000

ID: 24 arrivaltime: 2

msBuffer: 20000

ID: 25 arrivaltime: 2

msBuffer: 20000

ID: 26 arrivaltime: 3

msBuffer: 20000

ID: 27 arrivaltime: 2

msBuffer: 20000

ID: 28 arrivaltime: 2

msBuffer: 20000

ID: 29 arrivaltime: 2

msBuffer: 0

ID: 30 arrivaltime: 2

msBuffer: 20000

ID: 31 arrivaltime: 3

msBuffer: 20000

ID: 32 arrivaltime: 3

msBuffer: 20000

ID: 33 arrivaltime: 2

msBuffer: 0

ID: 34 arrivaltime: 2

msBuffer: 0

ID: 35 arrivaltime: 2

msBuffer: 20000

ID: 36 arrivaltime: 3

msBuffer: 20000

ID: 37 arrivaltime: 2

msBuffer: 20000

ID: 38 arrivaltime: 2

msBuffer: 20000

ID: 39 arrivaltime: 2

msBuffer: 20000

ID: 40 arrivaltime: 2

msBuffer: 20000

ID: 41 arrivaltime: 4

msBuffer: 20000

ID: 42 arrivaltime: 2

msBuffer: 20000

ID: 43 arrivaltime: 2

msBuffer: 20000

ID: 44 arrivaltime: 2

msBuffer: 0

ID: 45 arrivaltime: 5

msBuffer: 0

ID: 46 arrivaltime: 2

msBuffer: 20000

ID: 47 arrivaltime: 2

msBuffer: 0

ID: 48 arrivaltime: 3

msBuffer: 20000

ID: 49 arrivaltime: 3

msBuffer: 0

ID: 50 arrivaltime: 3

msBuffer: 20000

ID: 51 arrivaltime: 4

msBuffer: 0

ID: 52 arrivaltime: 2

msBuffer: 0

ID: 53 arrivaltime: 2

msBuffer: 20000

ID: 54 arrivaltime: 2

msBuffer: 0

ID: 55 arrivaltime: 2

msBuffer: 0

ID: 56 arrivaltime: 2

msBuffer: 20000

[Scheduling]: Base Station scheduling

RB: 6 CB: 0 BS ID: 0 UMS ID: 1

RB: 3 CB: 0 BS ID: 1 UMS ID: 14

RB: 7 CB: 0 BS ID: 5 UMS ID: 5

RB: 3 CB: 0 BS ID: 9 UMS ID: 8

RB: 2 CB: 0 BS ID: 11 UMS ID: 40

RB: 2 CB: 0 BS ID: 12 UMS ID: 6

RB: 6 CB: 1 BS ID: 12 UMS ID: 27

RB: 8 CB: 0 BS ID: 13 UMS ID: 39

RB: 1 CB: 0 BS ID: 14 UMS ID: 47

RB: 0 CB: 0 BS ID: 17 UMS ID: 16

RB: 1 CB: 0 BS ID: 21 UMS ID: 37

RB: 6 CB: 0 BS ID: 22 UMS ID: 23

RB: 1 CB: 0 BS ID: 24 UMS ID: 36

RB: 2 CB: 0 BS ID: 41 UMS ID: 22

RB: 8 CB: 0 BS ID: 42 UMS ID: 12

RB: 7 CB: 0 BS ID: 44 UMS ID: 42

RB: 6 CB: 0 BS ID: 46 UMS ID: 21

RB: 1 CB: 0 BS ID: 50 UMS ID: 4

RB: 4 CB: 0 BS ID: 52 UMS ID: 3

RB: 5 CB: 1 BS ID: 52 UMS ID: 53

RB: 9 CB: 0 BS ID: 54 UMS ID: 55

RB: 8 CB: 1 BS ID: 55 UMS ID: 56

RB: 9 CB: 0 BS ID: 55 UMS ID: 18

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 1 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 1\*\*\*\*\*\*

ID: 0 arrivaltime: 5

msBuffer: -2.83932e+08

ID: 1 arrivaltime: 3

msBuffer: 20000

ID: 2 arrivaltime: 3

msBuffer: -9.34496e+06

ID: 3 arrivaltime: 6

msBuffer: 40000

ID: 4 arrivaltime: 3

msBuffer: 20000

ID: 5 arrivaltime: 3

msBuffer: 40000

ID: 6 arrivaltime: 7

msBuffer: 40000

ID: 7 arrivaltime: 3

msBuffer: 20000

ID: 8 arrivaltime: 3

msBuffer: 40000

ID: 9 arrivaltime: 3

msBuffer: 40000

ID: 10 arrivaltime: 4

msBuffer: 40000

ID: 11 arrivaltime: 3

msBuffer: 20000

ID: 12 arrivaltime: 3

msBuffer: 20000

ID: 13 arrivaltime: 3

msBuffer: 40000

ID: 14 arrivaltime: 3

msBuffer: 20000

ID: 15 arrivaltime: 4

msBuffer: 20000

ID: 16 arrivaltime: 4

msBuffer: 40000

ID: 17 arrivaltime: 7

msBuffer: 20000

ID: 18 arrivaltime: 3

msBuffer: 20000

ID: 19 arrivaltime: 3

msBuffer: 40000

ID: 20 arrivaltime: 7

msBuffer: 40000

ID: 21 arrivaltime: 3

msBuffer: 0

ID: 22 arrivaltime: 3

msBuffer: 40000

ID: 23 arrivaltime: 4

msBuffer: 40000

ID: 24 arrivaltime: 3

msBuffer: 40000

ID: 25 arrivaltime: 5

msBuffer: 40000

ID: 26 arrivaltime: 3

msBuffer: 20000

ID: 27 arrivaltime: 3

msBuffer: 40000

ID: 28 arrivaltime: 3

msBuffer: 40000

ID: 29 arrivaltime: 3

msBuffer: 20000

ID: 30 arrivaltime: 4

msBuffer: 40000

ID: 31 arrivaltime: 3

msBuffer: 20000

ID: 32 arrivaltime: 3

msBuffer: 20000

ID: 33 arrivaltime: 3

msBuffer: 20000

ID: 34 arrivaltime: 3

msBuffer: 20000

ID: 35 arrivaltime: 3

msBuffer: 40000

ID: 36 arrivaltime: 3

msBuffer: 20000

ID: 37 arrivaltime: 4

msBuffer: 40000

ID: 38 arrivaltime: 3

msBuffer: 40000

ID: 39 arrivaltime: 3

msBuffer: 40000

ID: 40 arrivaltime: 3

msBuffer: 40000

ID: 41 arrivaltime: 4

msBuffer: 20000

ID: 42 arrivaltime: 3

msBuffer: 40000

ID: 43 arrivaltime: 4

msBuffer: 40000

ID: 44 arrivaltime: 5

msBuffer: 20000

ID: 45 arrivaltime: 5

msBuffer: 0

ID: 46 arrivaltime: 4

msBuffer: 40000

ID: 47 arrivaltime: 4

msBuffer: 20000

ID: 48 arrivaltime: 3

msBuffer: 20000

ID: 49 arrivaltime: 3

msBuffer: 0

ID: 50 arrivaltime: 3

msBuffer: 20000

ID: 51 arrivaltime: 4

msBuffer: 0

ID: 52 arrivaltime: 3

msBuffer: 20000

ID: 53 arrivaltime: 3

msBuffer: 40000

ID: 54 arrivaltime: 3

msBuffer: 20000

ID: 55 arrivaltime: 3

msBuffer: 20000

ID: 56 arrivaltime: 3

msBuffer: 40000

[Scheduling]: Base Station scheduling

RB: 2 CB: 0 BS ID: 11 UMS ID: 40

RB: 4 CB: 0 BS ID: 11 UMS ID: 44

RB: 2 CB: 0 BS ID: 12 UMS ID: 6

RB: 5 CB: 0 BS ID: 12 UMS ID: 9

RB: 0 CB: 0 BS ID: 17 UMS ID: 16

RB: 6 CB: 0 BS ID: 17 UMS ID: 49

RB: 2 CB: 0 BS ID: 42 UMS ID: 43

RB: 8 CB: 0 BS ID: 42 UMS ID: 12

RB: 4 CB: 0 BS ID: 52 UMS ID: 3

RB: 8 CB: 0 BS ID: 52 UMS ID: 51

RB: 4 CB: 0 BS ID: 55 UMS ID: 52

RB: 9 CB: 0 BS ID: 55 UMS ID: 18

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 2 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 2\*\*\*\*\*\*

ID: 0 arrivaltime: 5

msBuffer: -3.69124e+08

ID: 1 arrivaltime: 4

msBuffer: -3.05308e+07

ID: 2 arrivaltime: 4

msBuffer: -9.32496e+06

ID: 3 arrivaltime: 6

msBuffer: 40000

ID: 4 arrivaltime: 7

msBuffer: 40000

ID: 5 arrivaltime: 4

msBuffer: 60000

ID: 6 arrivaltime: 7

msBuffer: 40000

ID: 7 arrivaltime: 4

msBuffer: 40000

ID: 8 arrivaltime: 4

msBuffer: 60000

ID: 9 arrivaltime: 5

msBuffer: 60000

ID: 10 arrivaltime: 4

msBuffer: 40000

ID: 11 arrivaltime: 4

msBuffer: 40000

ID: 12 arrivaltime: 7

msBuffer: 40000

ID: 13 arrivaltime: 4

msBuffer: 60000

ID: 14 arrivaltime: 4

msBuffer: 40000

ID: 15 arrivaltime: 4

msBuffer: 20000

ID: 16 arrivaltime: 4

msBuffer: 40000

ID: 17 arrivaltime: 7

msBuffer: 20000

ID: 18 arrivaltime: 4

msBuffer: 40000

ID: 19 arrivaltime: 4

msBuffer: 60000

ID: 20 arrivaltime: 7

msBuffer: 40000

ID: 21 arrivaltime: 4

msBuffer: 20000

ID: 22 arrivaltime: 4

msBuffer: 60000

ID: 23 arrivaltime: 4

msBuffer: 40000

ID: 24 arrivaltime: 4

msBuffer: 60000

ID: 25 arrivaltime: 5

msBuffer: 40000

ID: 26 arrivaltime: 4

msBuffer: 40000

ID: 27 arrivaltime: 4

msBuffer: 60000

ID: 28 arrivaltime: 4

msBuffer: 60000

ID: 29 arrivaltime: 4

msBuffer: 40000

ID: 30 arrivaltime: 4

msBuffer: 40000

ID: 31 arrivaltime: 7

msBuffer: 40000

ID: 32 arrivaltime: 5

msBuffer: 40000

ID: 33 arrivaltime: 4

msBuffer: 40000

ID: 34 arrivaltime: 5

msBuffer: 40000

ID: 35 arrivaltime: 4

msBuffer: 60000

ID: 36 arrivaltime: 4

msBuffer: 40000

ID: 37 arrivaltime: 4

msBuffer: 40000

ID: 38 arrivaltime: 4

msBuffer: 60000

ID: 39 arrivaltime: 6

msBuffer: 60000

ID: 40 arrivaltime: 5

msBuffer: 60000

ID: 41 arrivaltime: 4

msBuffer: 20000

ID: 42 arrivaltime: 4

msBuffer: 60000

ID: 43 arrivaltime: 4

msBuffer: 40000

ID: 44 arrivaltime: 5

msBuffer: 20000

ID: 45 arrivaltime: 5

msBuffer: 0

ID: 46 arrivaltime: 4

msBuffer: 40000

ID: 47 arrivaltime: 4

msBuffer: 20000

ID: 48 arrivaltime: 4

msBuffer: 40000

ID: 49 arrivaltime: 4

msBuffer: 20000

ID: 50 arrivaltime: 4

msBuffer: 40000

ID: 51 arrivaltime: 4

msBuffer: 0

ID: 52 arrivaltime: 5

msBuffer: 40000

ID: 53 arrivaltime: 4

msBuffer: 60000

ID: 54 arrivaltime: 4

msBuffer: 40000

ID: 55 arrivaltime: 5

msBuffer: 40000

ID: 56 arrivaltime: 4

msBuffer: 60000

[Scheduling]: Base Station scheduling

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 3 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 3\*\*\*\*\*\*

ID: 0 arrivaltime: 5

msBuffer: -3.69124e+08

ID: 1 arrivaltime: 5

msBuffer: -3.05108e+07

ID: 2 arrivaltime: 7

msBuffer: -9.30496e+06

ID: 3 arrivaltime: 6

msBuffer: 40000

ID: 4 arrivaltime: 7

msBuffer: 40000

ID: 5 arrivaltime: 5

msBuffer: 80000

ID: 6 arrivaltime: 7

msBuffer: 40000

ID: 7 arrivaltime: 6

msBuffer: 60000

ID: 8 arrivaltime: 7

msBuffer: 80000

ID: 9 arrivaltime: 5

msBuffer: 60000

ID: 10 arrivaltime: 6

msBuffer: 60000

ID: 11 arrivaltime: 5

msBuffer: 60000

ID: 12 arrivaltime: 7

msBuffer: 40000

ID: 13 arrivaltime: 5

msBuffer: 80000

ID: 14 arrivaltime: 5

msBuffer: 60000

ID: 15 arrivaltime: 5

msBuffer: 40000

ID: 16 arrivaltime: 6

msBuffer: 60000

ID: 17 arrivaltime: 7

msBuffer: 20000

ID: 18 arrivaltime: 6

msBuffer: 60000

ID: 19 arrivaltime: 5

msBuffer: 80000

ID: 20 arrivaltime: 7

msBuffer: 40000

ID: 21 arrivaltime: 6

msBuffer: 40000

ID: 22 arrivaltime: 5

msBuffer: 80000

ID: 23 arrivaltime: 5

msBuffer: 60000

ID: 24 arrivaltime: 7

msBuffer: 80000

ID: 25 arrivaltime: 5

msBuffer: 40000

ID: 26 arrivaltime: 5

msBuffer: 60000

ID: 27 arrivaltime: 7

msBuffer: 80000

ID: 28 arrivaltime: 5

msBuffer: 80000

ID: 29 arrivaltime: 5

msBuffer: 60000

ID: 30 arrivaltime: 6

msBuffer: 60000

ID: 31 arrivaltime: 7

msBuffer: 40000

ID: 32 arrivaltime: 5

msBuffer: 40000

ID: 33 arrivaltime: 7

msBuffer: 60000

ID: 34 arrivaltime: 5

msBuffer: 40000

ID: 35 arrivaltime: 6

msBuffer: 80000

ID: 36 arrivaltime: 5

msBuffer: 60000

ID: 37 arrivaltime: 5

msBuffer: 60000

ID: 38 arrivaltime: 7

msBuffer: 80000

ID: 39 arrivaltime: 6

msBuffer: 60000

ID: 40 arrivaltime: 5

msBuffer: 60000

ID: 41 arrivaltime: 5

msBuffer: 40000

ID: 42 arrivaltime: 5

msBuffer: 80000

ID: 43 arrivaltime: 5

msBuffer: 60000

ID: 44 arrivaltime: 5

msBuffer: 20000

ID: 45 arrivaltime: 5

msBuffer: 0

ID: 46 arrivaltime: 6

msBuffer: 60000

ID: 47 arrivaltime: 5

msBuffer: 40000

ID: 48 arrivaltime: 5

msBuffer: 60000

ID: 49 arrivaltime: 5

msBuffer: 40000

ID: 50 arrivaltime: 6

msBuffer: 60000

ID: 51 arrivaltime: 5

msBuffer: 20000

ID: 52 arrivaltime: 5

msBuffer: 40000

ID: 53 arrivaltime: 5

msBuffer: 80000

ID: 54 arrivaltime: 9

msBuffer: 60000

ID: 55 arrivaltime: 5

msBuffer: 40000

ID: 56 arrivaltime: 5

msBuffer: 80000

[Scheduling]: Base Station scheduling

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 4 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 4\*\*\*\*\*\*

ID: 0 arrivaltime: 7

msBuffer: -3.69104e+08

ID: 1 arrivaltime: 6

msBuffer: -3.04908e+07

ID: 2 arrivaltime: 7

msBuffer: -9.30496e+06

ID: 3 arrivaltime: 6

msBuffer: 40000

ID: 4 arrivaltime: 7

msBuffer: 40000

ID: 5 arrivaltime: 9

msBuffer: 100000

ID: 6 arrivaltime: 7

msBuffer: 40000

ID: 7 arrivaltime: 6

msBuffer: 60000

ID: 8 arrivaltime: 7

msBuffer: 80000

ID: 9 arrivaltime: 7

msBuffer: 80000

ID: 10 arrivaltime: 6

msBuffer: 60000

ID: 11 arrivaltime: 6

msBuffer: 80000

ID: 12 arrivaltime: 7

msBuffer: 40000

ID: 13 arrivaltime: 6

msBuffer: 100000

ID: 14 arrivaltime: 6

msBuffer: 80000

ID: 15 arrivaltime: 8

msBuffer: 60000

ID: 16 arrivaltime: 6

msBuffer: 60000

ID: 17 arrivaltime: 7

msBuffer: 20000

ID: 18 arrivaltime: 6

msBuffer: 60000

ID: 19 arrivaltime: 6

msBuffer: 100000

ID: 20 arrivaltime: 7

msBuffer: 40000

ID: 21 arrivaltime: 6

msBuffer: 40000

ID: 22 arrivaltime: 7

msBuffer: 100000

ID: 23 arrivaltime: 6

msBuffer: 80000

ID: 24 arrivaltime: 7

msBuffer: 80000

ID: 25 arrivaltime: 8

msBuffer: 60000

ID: 26 arrivaltime: 6

msBuffer: 80000

ID: 27 arrivaltime: 7

msBuffer: 80000

ID: 28 arrivaltime: 7

msBuffer: 100000

ID: 29 arrivaltime: 6

msBuffer: 80000

ID: 30 arrivaltime: 6

msBuffer: 60000

ID: 31 arrivaltime: 7

msBuffer: 40000

ID: 32 arrivaltime: 6

msBuffer: 60000

ID: 33 arrivaltime: 7

msBuffer: 60000

ID: 34 arrivaltime: 6

msBuffer: 60000

ID: 35 arrivaltime: 6

msBuffer: 80000

ID: 36 arrivaltime: 6

msBuffer: 80000

ID: 37 arrivaltime: 6

msBuffer: 80000

ID: 38 arrivaltime: 7

msBuffer: 80000

ID: 39 arrivaltime: 6

msBuffer: 60000

ID: 40 arrivaltime: 6

msBuffer: 80000

ID: 41 arrivaltime: 6

msBuffer: 60000

ID: 42 arrivaltime: 7

msBuffer: 100000

ID: 43 arrivaltime: 6

msBuffer: 80000

ID: 44 arrivaltime: 6

msBuffer: 40000

ID: 45 arrivaltime: 6

msBuffer: 20000

ID: 46 arrivaltime: 6

msBuffer: 60000

ID: 47 arrivaltime: 6

msBuffer: 60000

ID: 48 arrivaltime: 7

msBuffer: 80000

ID: 49 arrivaltime: 6

msBuffer: 60000

ID: 50 arrivaltime: 6

msBuffer: 60000

ID: 51 arrivaltime: 7

msBuffer: 40000

ID: 52 arrivaltime: 6

msBuffer: 60000

ID: 53 arrivaltime: 8

msBuffer: 100000

ID: 54 arrivaltime: 9

msBuffer: 60000

ID: 55 arrivaltime: 8

msBuffer: 60000

ID: 56 arrivaltime: 8

msBuffer: 100000

[Scheduling]: Mobile Station CSI feedback

[Scheduling]: Base Station scheduling

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 5 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 5\*\*\*\*\*\*

ID: 0 arrivaltime: 7

msBuffer: -3.69104e+08

ID: 1 arrivaltime: 8

msBuffer: -3.04708e+07

ID: 2 arrivaltime: 7

msBuffer: -9.30496e+06

ID: 3 arrivaltime: 7

msBuffer: 60000

ID: 4 arrivaltime: 7

msBuffer: 40000

ID: 5 arrivaltime: 9

msBuffer: 100000

ID: 6 arrivaltime: 7

msBuffer: 40000

ID: 7 arrivaltime: 7

msBuffer: 80000

ID: 8 arrivaltime: 7

msBuffer: 80000

ID: 9 arrivaltime: 7

msBuffer: 80000

ID: 10 arrivaltime: 9

msBuffer: 80000

ID: 11 arrivaltime: 8

msBuffer: 100000

ID: 12 arrivaltime: 7

msBuffer: 40000

ID: 13 arrivaltime: 7

msBuffer: 120000

ID: 14 arrivaltime: 8

msBuffer: 100000

ID: 15 arrivaltime: 8

msBuffer: 60000

ID: 16 arrivaltime: 8

msBuffer: 80000

ID: 17 arrivaltime: 7

msBuffer: 20000

ID: 18 arrivaltime: 8

msBuffer: 80000

ID: 19 arrivaltime: 7

msBuffer: 120000

ID: 20 arrivaltime: 7

msBuffer: 40000

ID: 21 arrivaltime: 7

msBuffer: 60000

ID: 22 arrivaltime: 7

msBuffer: 100000

ID: 23 arrivaltime: 7

msBuffer: 100000

ID: 24 arrivaltime: 7

msBuffer: 80000

ID: 25 arrivaltime: 8

msBuffer: 60000

ID: 26 arrivaltime: 7

msBuffer: 100000

ID: 27 arrivaltime: 7

msBuffer: 80000

ID: 28 arrivaltime: 7

msBuffer: 100000

ID: 29 arrivaltime: 7

msBuffer: 100000

ID: 30 arrivaltime: 7

msBuffer: 80000

ID: 31 arrivaltime: 7

msBuffer: 40000

ID: 32 arrivaltime: 7

msBuffer: 80000

ID: 33 arrivaltime: 7

msBuffer: 60000

ID: 34 arrivaltime: 8

msBuffer: 80000

ID: 35 arrivaltime: 7

msBuffer: 100000

ID: 36 arrivaltime: 11

msBuffer: 100000

ID: 37 arrivaltime: 9

msBuffer: 100000

ID: 38 arrivaltime: 7

msBuffer: 80000

ID: 39 arrivaltime: 7

msBuffer: 80000

ID: 40 arrivaltime: 7

msBuffer: 100000

ID: 41 arrivaltime: 9

msBuffer: 80000

ID: 42 arrivaltime: 7

msBuffer: 100000

ID: 43 arrivaltime: 7

msBuffer: 100000

ID: 44 arrivaltime: 7

msBuffer: 60000

ID: 45 arrivaltime: 9

msBuffer: 40000

ID: 46 arrivaltime: 7

msBuffer: 80000

ID: 47 arrivaltime: 8

msBuffer: 80000

ID: 48 arrivaltime: 7

msBuffer: 80000

ID: 49 arrivaltime: 7

msBuffer: 80000

ID: 50 arrivaltime: 7

msBuffer: 80000

ID: 51 arrivaltime: 7

msBuffer: 40000

ID: 52 arrivaltime: 8

msBuffer: 80000

ID: 53 arrivaltime: 8

msBuffer: 100000

ID: 54 arrivaltime: 9

msBuffer: 60000

ID: 55 arrivaltime: 8

msBuffer: 60000

ID: 56 arrivaltime: 8

msBuffer: 100000

[Scheduling]: Base Station scheduling

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 6 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 6\*\*\*\*\*\*

ID: 0 arrivaltime: 8

msBuffer: -3.69084e+08

ID: 1 arrivaltime: 8

msBuffer: -3.04708e+07

ID: 2 arrivaltime: 9

msBuffer: -9.28496e+06

ID: 3 arrivaltime: 8

msBuffer: 80000

ID: 4 arrivaltime: 9

msBuffer: 60000

ID: 5 arrivaltime: 9

msBuffer: 100000

ID: 6 arrivaltime: 11

msBuffer: 60000

ID: 7 arrivaltime: 8

msBuffer: 100000

ID: 8 arrivaltime: 8

msBuffer: 100000

ID: 9 arrivaltime: 8

msBuffer: 100000

ID: 10 arrivaltime: 9

msBuffer: 80000

ID: 11 arrivaltime: 8

msBuffer: 100000

ID: 12 arrivaltime: 9

msBuffer: 60000

ID: 13 arrivaltime: 8

msBuffer: 140000

ID: 14 arrivaltime: 8

msBuffer: 100000

ID: 15 arrivaltime: 8

msBuffer: 60000

ID: 16 arrivaltime: 8

msBuffer: 80000

ID: 17 arrivaltime: 8

msBuffer: 40000

ID: 18 arrivaltime: 8

msBuffer: 80000

ID: 19 arrivaltime: 9

msBuffer: 140000

ID: 20 arrivaltime: 8

msBuffer: 60000

ID: 21 arrivaltime: 9

msBuffer: 80000

ID: 22 arrivaltime: 8

msBuffer: 120000

ID: 23 arrivaltime: 8

msBuffer: 120000

ID: 24 arrivaltime: 9

msBuffer: 100000

ID: 25 arrivaltime: 8

msBuffer: 60000

ID: 26 arrivaltime: 8

msBuffer: 120000

ID: 27 arrivaltime: 9

msBuffer: 100000

ID: 28 arrivaltime: 8

msBuffer: 120000

ID: 29 arrivaltime: 8

msBuffer: 120000

ID: 30 arrivaltime: 8

msBuffer: 100000

ID: 31 arrivaltime: 8

msBuffer: 60000

ID: 32 arrivaltime: 8

msBuffer: 100000

ID: 33 arrivaltime: 8

msBuffer: 80000

ID: 34 arrivaltime: 8

msBuffer: 80000

ID: 35 arrivaltime: 8

msBuffer: 120000

ID: 36 arrivaltime: 11

msBuffer: 100000

ID: 37 arrivaltime: 9

msBuffer: 100000

ID: 38 arrivaltime: 10

msBuffer: 100000

ID: 39 arrivaltime: 8

msBuffer: 100000

ID: 40 arrivaltime: 8

msBuffer: 120000

ID: 41 arrivaltime: 9

msBuffer: 80000

ID: 42 arrivaltime: 8

msBuffer: 120000

ID: 43 arrivaltime: 8

msBuffer: 120000

ID: 44 arrivaltime: 8

msBuffer: 80000

ID: 45 arrivaltime: 9

msBuffer: 40000

ID: 46 arrivaltime: 9

msBuffer: 100000

ID: 47 arrivaltime: 8

msBuffer: 80000

ID: 48 arrivaltime: 8

msBuffer: 100000

ID: 49 arrivaltime: 8

msBuffer: 100000

ID: 50 arrivaltime: 8

msBuffer: 100000

ID: 51 arrivaltime: 9

msBuffer: 60000

ID: 52 arrivaltime: 8

msBuffer: 80000

ID: 53 arrivaltime: 8

msBuffer: 100000

ID: 54 arrivaltime: 9

msBuffer: 60000

ID: 55 arrivaltime: 8

msBuffer: 60000

ID: 56 arrivaltime: 8

msBuffer: 100000

[Scheduling]: Base Station scheduling

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 7 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 7\*\*\*\*\*\*

ID: 0 arrivaltime: 10

msBuffer: -3.69064e+08

ID: 1 arrivaltime: 9

msBuffer: -3.04508e+07

ID: 2 arrivaltime: 9

msBuffer: -9.28496e+06

ID: 3 arrivaltime: 9

msBuffer: 100000

ID: 4 arrivaltime: 9

msBuffer: 60000

ID: 5 arrivaltime: 9

msBuffer: 100000

ID: 6 arrivaltime: 11

msBuffer: 60000

ID: 7 arrivaltime: 9

msBuffer: 120000

ID: 8 arrivaltime: 9

msBuffer: 120000

ID: 9 arrivaltime: 10

msBuffer: 120000

ID: 10 arrivaltime: 9

msBuffer: 80000

ID: 11 arrivaltime: 10

msBuffer: 120000

ID: 12 arrivaltime: 9

msBuffer: 60000

ID: 13 arrivaltime: 9

msBuffer: 160000

ID: 14 arrivaltime: 11

msBuffer: 120000

ID: 15 arrivaltime: 10

msBuffer: 80000

ID: 16 arrivaltime: 9

msBuffer: 100000

ID: 17 arrivaltime: 10

msBuffer: 60000

ID: 18 arrivaltime: 9

msBuffer: 100000

ID: 19 arrivaltime: 9

msBuffer: 140000

ID: 20 arrivaltime: 11

msBuffer: 80000

ID: 21 arrivaltime: 9

msBuffer: 80000

ID: 22 arrivaltime: 9

msBuffer: 140000

ID: 23 arrivaltime: 10

msBuffer: 140000

ID: 24 arrivaltime: 9

msBuffer: 100000

ID: 25 arrivaltime: 9

msBuffer: 80000

ID: 26 arrivaltime: 9

msBuffer: 140000

ID: 27 arrivaltime: 9

msBuffer: 100000

ID: 28 arrivaltime: 9

msBuffer: 140000

ID: 29 arrivaltime: 9

msBuffer: 140000

ID: 30 arrivaltime: 9

msBuffer: 120000

ID: 31 arrivaltime: 9

msBuffer: 80000

ID: 32 arrivaltime: 10

msBuffer: 120000

ID: 33 arrivaltime: 9

msBuffer: 100000

ID: 34 arrivaltime: 9

msBuffer: 100000

ID: 35 arrivaltime: 9

msBuffer: 140000

ID: 36 arrivaltime: 11

msBuffer: 100000

ID: 37 arrivaltime: 9

msBuffer: 100000

ID: 38 arrivaltime: 10

msBuffer: 100000

ID: 39 arrivaltime: 9

msBuffer: 120000

ID: 40 arrivaltime: 9

msBuffer: 140000

ID: 41 arrivaltime: 9

msBuffer: 80000

ID: 42 arrivaltime: 11

msBuffer: 140000

ID: 43 arrivaltime: 9

msBuffer: 140000

ID: 44 arrivaltime: 9

msBuffer: 100000

ID: 45 arrivaltime: 9

msBuffer: 40000

ID: 46 arrivaltime: 9

msBuffer: 100000

ID: 47 arrivaltime: 9

msBuffer: 100000

ID: 48 arrivaltime: 12

msBuffer: 120000

ID: 49 arrivaltime: 10

msBuffer: 120000

ID: 50 arrivaltime: 9

msBuffer: 120000

ID: 51 arrivaltime: 9

msBuffer: 60000

ID: 52 arrivaltime: 9

msBuffer: 100000

ID: 53 arrivaltime: 9

msBuffer: 120000

ID: 54 arrivaltime: 9

msBuffer: 60000

ID: 55 arrivaltime: 10

msBuffer: 80000

ID: 56 arrivaltime: 10

msBuffer: 120000

[Scheduling]: Base Station scheduling

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 8 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 8\*\*\*\*\*\*

ID: 0 arrivaltime: 10

msBuffer: -3.69064e+08

ID: 1 arrivaltime: 13

msBuffer: -3.04308e+07

ID: 2 arrivaltime: 10

msBuffer: -9.26496e+06

ID: 3 arrivaltime: 10

msBuffer: 120000

ID: 4 arrivaltime: 10

msBuffer: 80000

ID: 5 arrivaltime: 10

msBuffer: 120000

ID: 6 arrivaltime: 11

msBuffer: 60000

ID: 7 arrivaltime: 10

msBuffer: 140000

ID: 8 arrivaltime: 11

msBuffer: 140000

ID: 9 arrivaltime: 10

msBuffer: 120000

ID: 10 arrivaltime: 10

msBuffer: 100000

ID: 11 arrivaltime: 10

msBuffer: 120000

ID: 12 arrivaltime: 10

msBuffer: 80000

ID: 13 arrivaltime: 10

msBuffer: 180000

ID: 14 arrivaltime: 11

msBuffer: 120000

ID: 15 arrivaltime: 10

msBuffer: 80000

ID: 16 arrivaltime: 10

msBuffer: 120000

ID: 17 arrivaltime: 10

msBuffer: 60000

ID: 18 arrivaltime: 10

msBuffer: 120000

ID: 19 arrivaltime: 10

msBuffer: 160000

ID: 20 arrivaltime: 11

msBuffer: 80000

ID: 21 arrivaltime: 10

msBuffer: 100000

ID: 22 arrivaltime: 10

msBuffer: 160000

ID: 23 arrivaltime: 10

msBuffer: 140000

ID: 24 arrivaltime: 10

msBuffer: 120000

ID: 25 arrivaltime: 10

msBuffer: 100000

ID: 26 arrivaltime: 10

msBuffer: 160000

ID: 27 arrivaltime: 11

msBuffer: 120000

ID: 28 arrivaltime: 10

msBuffer: 160000

ID: 29 arrivaltime: 10

msBuffer: 160000

ID: 30 arrivaltime: 10

msBuffer: 140000

ID: 31 arrivaltime: 10

msBuffer: 100000

ID: 32 arrivaltime: 10

msBuffer: 120000

ID: 33 arrivaltime: 10

msBuffer: 120000

ID: 34 arrivaltime: 10

msBuffer: 120000

ID: 35 arrivaltime: 10

msBuffer: 160000

ID: 36 arrivaltime: 11

msBuffer: 100000

ID: 37 arrivaltime: 11

msBuffer: 120000

ID: 38 arrivaltime: 10

msBuffer: 100000

ID: 39 arrivaltime: 11

msBuffer: 140000

ID: 40 arrivaltime: 11

msBuffer: 160000

ID: 41 arrivaltime: 11

msBuffer: 100000

ID: 42 arrivaltime: 11

msBuffer: 140000

ID: 43 arrivaltime: 10

msBuffer: 160000

ID: 44 arrivaltime: 10

msBuffer: 120000

ID: 45 arrivaltime: 10

msBuffer: 60000

ID: 46 arrivaltime: 11

msBuffer: 120000

ID: 47 arrivaltime: 10

msBuffer: 120000

ID: 48 arrivaltime: 12

msBuffer: 120000

ID: 49 arrivaltime: 10

msBuffer: 120000

ID: 50 arrivaltime: 11

msBuffer: 140000

ID: 51 arrivaltime: 10

msBuffer: 80000

ID: 52 arrivaltime: 10

msBuffer: 120000

ID: 53 arrivaltime: 11

msBuffer: 140000

ID: 54 arrivaltime: 11

msBuffer: 80000

ID: 55 arrivaltime: 10

msBuffer: 80000

ID: 56 arrivaltime: 10

msBuffer: 120000

[Scheduling]: Base Station scheduling

\*\*\*\*\*\*\*\*\*\*\*\* TTI: 9 \*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\* Average Throughput Calculated \*\*\*\*\*\*\*\*

\*\*\*\*\*\*TTI 9\*\*\*\*\*\*