Lampiran1Perhitungan Data Eksperimen

**TABEL DATA PERHITUNGAN LAYANAN AHLI MENGGUNAKAN *RESTFUL***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Ahli |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 383 | 1.10 | 422.32 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 383 | 0.35 | 132.20 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 383 | 1.07 | 410.19 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 383 | 1.12 | 429.78 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 383 | 1.15 | 438.64 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 383 | 1.29 | 495.37 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 383 | 2.85 | 1093.21 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 383 | 1.49 | 568.96 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 383 | 1.82 | 695.62 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 383 | 1.97 | 755.04 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 383 | 1.00 | 383.46 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 383 | 2.16 | 825.63 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 383 | 1.67 | 640.11 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 383 | 1.20 | 461.20 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 383 | 1.23 | 472.58 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 383 | 1.49 | 568.96 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 383 | 1.07 | 411.63 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 383 | 1.67 | 640.11 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 383 | 2.48 | 949.99 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 383 | 1.20 | 461.20 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 383 | 1.05 | 401.85 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 383 | 1.33 | 510.27 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 383 | 1.54 | 588.70 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 383 | 0.87 | 331.87 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 383 | 1.42 | 544.02 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 383 | 1.41 | 539.16 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 383 | 1.11 | 423.45 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 383 | 0.89 | 340.28 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 383 | 1.73 | 660.99 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 383 | 1.46 | 558.88 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 383 | 0.20 | 75.30 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 383 | 0.19 | 73.85 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 383 | 1.27 | 487.71 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 383 | 0.16 | 60.22 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 383 | 1.09 | 418.36 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 383 | 1.01 | 388.65 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 383 | 0.99 | 379.21 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 383 | 1.10 | 422.98 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 383 | 1.23 | 469.67 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 383 | 0.23 | 87.85 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 383 | 1.23 | 469.67 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 383 | 1.11 | 425.60 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 383 | 1.10 | 422.98 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 383 | 1.31 | 500.75 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 383 | 1.14 | 435.28 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 383 | 1.21 | 462.25 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 383 | 1.41 | 540.40 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 383 | 1.10 | 420.92 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 383 | 1.24 | 475.50 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 383 | 1.10 | 420.88 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 383 | 1.22 | 467.13 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 383 | 1.10 | 422.98 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 383 | 0.95 | 363.10 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 383 | 0.63 | 240.15 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 383 | 1.06 | 404.82 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 383 | 1.01 | 387.46 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 383 | 0.91 | 348.96 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 383 | 0.71 | 272.54 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 383 | 0.23 | 87.34 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 383 | 0.53 | 202.24 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 383 | 1.20 | 461.20 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 383 | 1.02 | 390.60 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 383 | 0.25 | 95.14 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 383 | 0.17 | 65.00 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 383 | 0.16 | 60.00 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 383 | 0.24 | 91.71 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 383 | 0.24 | 90.17 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 383 | 0.17 | 64.98 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 383 | 0.20 | 74.98 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 383 | 0.16 | 59.95 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 383 | 0.20 | 74.78 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 383 | 0.08 | 30.00 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 383 | 0.09 | 35.44 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 383 | 0.19 | 74.00 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 383 | 0.26 | 98.36 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 383 | 0.18 | 68.56 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 383 | 0.23 | 87.12 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 383 | 0.22 | 84.62 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 383 | 0.18 | 69.31 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 383 | 0.08 | 30.86 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 383 | 0.14 | 52.22 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 383 | 0.17 | 64.98 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 383 | 0.19 | 73.99 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 383 | 0.20 | 75.19 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 383 | 0.19 | 73.74 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 383 | 0.25 | 97.39 |

**TABEL DATA PERHITUNGAN LAYANAN AHLI MENGGUNAKAN *SOAP***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Ahli |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.28 | 929.29 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.04 | 350.38 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.13 | 1813.17 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.13 | 1439.50 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.13 | 920.98 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.15 | 973.96 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3281 | 0.33 | 1471.73 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.17 | 1280.88 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.21 | 1322.77 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.23 | 1364.10 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.12 | 1140.89 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.25 | 1357.46 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.20 | 1343.77 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.14 | 1087.54 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.14 | 1233.73 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 3281 | 0.17 | 1487.36 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.13 | 1012.40 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.20 | 1376.54 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3281 | 0.29 | 1460.43 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.14 | 1012.40 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.12 | 1070.17 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.16 | 1498.37 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.18 | 1365.44 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.10 | 802.98 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.17 | 1556.37 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 3281 | 0.16 | 1537.66 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.13 | 911.82 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.10 | 340.28 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.20 | 1370.62 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.17 | 1072.92 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3281 | 0.02 | 289.18 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3281 | 0.02 | 250.65 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.15 | 1008.98 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3281 | 0.02 | 213.05 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.13 | 1571.74 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.12 | 1498.20 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.12 | 1511.58 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.13 | 1459.45 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.14 | 1491.60 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3281 | 0.03 | 191.20 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.14 | 1475.83 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.13 | 1627.85 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.13 | 1438.22 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.15 | 1414.19 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.13 | 1498.20 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3281 | 0.14 | 1428.10 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.16 | 1435.57 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.13 | 1511.58 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.14 | 1446.98 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.13 | 1498.20 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3281 | 0.14 | 1438.22 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 3281 | 0.13 | 1365.30 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3281 | 0.11 | 902.77 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3281 | 0.07 | 857.06 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.12 | 1066.83 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.12 | 1018.75 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 3281 | 0.11 | 1061.86 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3281 | 0.08 | 1084.34 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3281 | 0.03 | 278.99 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.06 | 1008.98 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 3281 | 0.14 | 1119.52 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.12 | 813.16 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 3281 | 0.03 | 281.64 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3281 | 0.02 | 113.34 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 3281 | 0.02 | 131.78 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.03 | 292.64 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3281 | 0.03 | 261.59 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3281 | 0.02 | 246.91 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3281 | 0.02 | 239.18 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 3281 | 0.02 | 249.96 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3281 | 0.02 | 288.28 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3281 | 0.01 | 118.15 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3281 | 0.01 | 165.67 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3281 | 0.02 | 116.63 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3281 | 0.03 | 246.91 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.02 | 136.96 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.03 | 108.98 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3281 | 0.03 | 266.68 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3281 | 0.02 | 262.55 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3281 | 0.01 | 141.19 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3281 | 0.02 | 101.78 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3281 | 0.02 | 246.91 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3281 | 0.02 | 249.51 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.02 | 297.79 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.02 | 292.64 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 3281 | 0.03 | 189.36 |

**TABEL DATA PERHITUNGAN LAYANAN IRIGASI MENGGUNAKAN *RESTFUL***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Irigasi |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 985 | 0.94 | 924.26 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 985 | 0.21 | 207.03 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 985 | 0.93 | 915.82 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 985 | 0.96 | 949.91 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 985 | 0.62 | 611.95 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 985 | 0.66 | 652.48 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 985 | 1.32 | 1301.36 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 985 | 0.90 | 887.70 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 985 | 0.96 | 947.11 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 985 | 0.97 | 952.98 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 985 | 0.51 | 499.76 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 985 | 0.99 | 979.85 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 985 | 0.92 | 905.44 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 985 | 0.57 | 562.89 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 985 | 0.54 | 532.46 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 985 | 0.90 | 887.70 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 985 | 0.51 | 505.15 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 985 | 0.92 | 905.44 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 985 | 1.05 | 1030.04 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 985 | 0.35 | 345.63 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 985 | 0.27 | 269.07 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 985 | 0.61 | 600.61 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 985 | 0.65 | 639.61 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 985 | 0.09 | 84.59 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 985 | 0.50 | 490.88 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 985 | 0.46 | 453.52 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 985 | 0.33 | 320.13 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 985 | 0.10 | 99.13 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 985 | 0.74 | 729.04 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 985 | 0.16 | 156.52 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 985 | 0.08 | 78.56 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 985 | 0.07 | 72.22 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 985 | 0.14 | 140.85 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 985 | 0.07 | 64.73 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 985 | 0.79 | 774.28 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 985 | 0.79 | 774.28 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 985 | 0.60 | 589.06 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 985 | 0.60 | 589.06 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 985 | 0.60 | 589.06 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 985 | 0.06 | 60.74 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 985 | 0.60 | 589.06 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 985 | 0.53 | 519.33 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 985 | 0.60 | 589.06 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 985 | 0.64 | 633.97 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 985 | 0.59 | 580.54 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 985 | 0.59 | 580.35 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 985 | 0.61 | 598.11 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 985 | 0.59 | 583.98 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 985 | 0.60 | 589.06 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 985 | 0.63 | 616.90 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 985 | 0.56 | 548.23 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 985 | 0.60 | 589.06 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 985 | 0.26 | 260.99 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 985 | 0.26 | 254.26 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 985 | 0.37 | 364.01 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 985 | 0.39 | 385.20 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 985 | 0.38 | 376.86 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 985 | 0.46 | 455.86 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 985 | 0.27 | 269.24 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 985 | 0.09 | 92.59 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 985 | 0.34 | 336.15 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 985 | 0.51 | 505.15 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 985 | 0.07 | 72.21 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 985 | 0.08 | 78.59 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 985 | 0.04 | 43.45 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 985 | 0.10 | 96.25 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 985 | 0.09 | 88.46 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 985 | 0.09 | 85.36 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 985 | 0.09 | 84.99 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 985 | 0.08 | 74.50 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 985 | 0.09 | 85.20 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 985 | 1.00 | 980.11 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 985 | 0.05 | 46.77 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 985 | 0.28 | 271.57 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 985 | 0.09 | 84.63 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 985 | 1.01 | 997.09 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 985 | 0.91 | 901.17 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 985 | 0.07 | 72.21 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 985 | 0.07 | 71.69 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 985 | 0.04 | 41.82 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 985 | 0.18 | 174.72 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 985 | 0.09 | 84.63 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 985 | 0.08 | 83.23 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 985 | 0.09 | 92.59 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 985 | 0.09 | 92.59 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 985 | 0.06 | 55.85 |

**TABEL DATA PERHITUNGAN LAYANAN IRIGASI MENGGUNAKAN *SOAP***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Irigasi |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3450 | 0.37 | 1273.81 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 3450 | 0.20 | 682.50 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3450 | 0.34 | 1159.13 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3450 | 0.54 | 1860.15 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3450 | 0.52 | 1807.79 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3450 | 0.53 | 1831.16 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3450 | 0.69 | 2380.38 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3450 | 0.51 | 1775.33 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3450 | 0.53 | 1814.93 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3450 | 0.33 | 1147.82 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3450 | 0.50 | 1739.06 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3450 | 0.53 | 1813.69 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3450 | 0.50 | 1741.63 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3450 | 0.53 | 1828.12 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3450 | 0.50 | 1728.06 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 3450 | 0.51 | 1743.83 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3450 | 0.32 | 1114.18 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3450 | 0.51 | 1750.47 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3450 | 0.69 | 2387.18 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3450 | 0.24 | 842.19 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3450 | 0.23 | 792.88 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3450 | 0.56 | 1948.16 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3450 | 0.53 | 1834.23 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3450 | 0.06 | 202.18 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 3450 | 0.28 | 974.80 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 3450 | 0.33 | 1130.04 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3450 | 0.24 | 823.94 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3450 | 0.06 | 192.15 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3450 | 0.51 | 1761.01 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3450 | 0.11 | 363.56 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3450 | 0.06 | 194.78 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3450 | 0.06 | 193.68 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3450 | 0.10 | 352.42 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3450 | 0.06 | 211.67 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3450 | 0.44 | 1515.91 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3450 | 0.47 | 1637.92 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3450 | 0.38 | 1323.70 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3450 | 0.42 | 1433.71 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3450 | 0.40 | 1376.51 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3450 | 0.06 | 203.99 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3450 | 0.42 | 1452.11 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3450 | 0.43 | 1489.42 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3450 | 0.42 | 1452.11 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3450 | 0.43 | 1483.33 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3450 | 0.42 | 1433.71 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3450 | 0.50 | 1731.79 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3450 | 0.34 | 1172.96 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3450 | 0.38 | 1323.70 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3450 | 0.37 | 1274.79 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3450 | 0.52 | 1809.75 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3450 | 0.35 | 1199.64 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 3450 | 0.34 | 1187.06 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3450 | 0.24 | 813.80 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3450 | 0.19 | 658.48 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3450 | 0.23 | 804.61 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3450 | 0.24 | 817.80 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 3450 | 0.20 | 697.87 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3450 | 0.27 | 919.70 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3450 | 0.19 | 659.11 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3450 | 0.37 | 1275.79 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 3450 | 0.22 | 768.46 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3450 | 0.33 | 1143.71 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 3450 | 0.06 | 215.68 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3450 | 0.23 | 808.18 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 3450 | 0.24 | 811.68 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3450 | 0.05 | 189.15 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3450 | 0.05 | 187.51 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3450 | 0.05 | 182.85 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3450 | 0.05 | 183.47 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 3450 | 0.05 | 180.81 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3450 | 0.05 | 182.74 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3450 | 0.06 | 193.13 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3450 | 0.05 | 168.96 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3450 | 0.31 | 1080.99 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3450 | 0.05 | 183.83 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 3450 | 0.51 | 1745.65 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 3450 | 0.48 | 1651.13 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3450 | 0.05 | 173.57 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3450 | 0.05 | 174.45 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3450 | 0.05 | 156.80 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3450 | 0.24 | 811.68 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3450 | 0.05 | 182.85 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3450 | 0.05 | 189.15 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3450 | 0.05 | 177.48 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3450 | 0.05 | 179.32 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 3450 | 0.05 | 182.05 |

**TABEL DATA PERHITUNGAN LAYANAN LAHAN MENGGUNAKAN *RESTFUL***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Lahan |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 406 | 1.30 | 527.63 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 406 | 0.18 | 73.29 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 406 | 1.30 | 526.32 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 406 | 1.35 | 547.00 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 406 | 1.42 | 575.53 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 406 | 1.71 | 693.50 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 406 | 2.49 | 1011.54 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 406 | 1.68 | 681.86 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 406 | 2.21 | 898.29 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 406 | 2.35 | 953.39 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 406 | 1.15 | 468.74 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 406 | 2.27 | 921.63 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 406 | 2.15 | 872.34 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 406 | 1.14 | 462.61 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 406 | 1.11 | 452.30 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 406 | 1.71 | 693.50 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 406 | 1.48 | 599.14 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 406 | 2.15 | 872.34 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 406 | 2.53 | 1027.84 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 406 | 1.48 | 599.14 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 406 | 1.35 | 549.90 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 406 | 1.88 | 763.20 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 406 | 1.85 | 749.12 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 406 | 0.18 | 71.94 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 406 | 1.19 | 482.24 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 406 | 1.04 | 421.29 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 406 | 0.92 | 372.04 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 406 | 0.18 | 73.25 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 406 | 1.74 | 706.22 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 406 | 0.58 | 234.28 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 406 | 0.08 | 32.33 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 406 | 0.08 | 30.53 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 406 | 0.55 | 221.50 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 406 | 0.11 | 44.46 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 406 | 1.25 | 506.55 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 406 | 1.22 | 494.22 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 406 | 1.11 | 450.36 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 406 | 1.23 | 500.31 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 406 | 1.25 | 507.18 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 406 | 0.11 | 43.05 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 406 | 1.25 | 506.55 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 406 | 1.23 | 500.28 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 406 | 1.23 | 500.31 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 406 | 1.24 | 505.13 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 406 | 1.23 | 500.28 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 406 | 1.11 | 450.45 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 406 | 1.23 | 500.78 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 406 | 1.16 | 471.25 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 406 | 1.22 | 495.03 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 406 | 1.16 | 471.25 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 406 | 1.17 | 475.88 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 406 | 1.11 | 450.36 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 406 | 1.12 | 453.36 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 406 | 0.56 | 226.12 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 406 | 0.60 | 244.26 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 406 | 0.65 | 264.03 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 406 | 0.63 | 254.08 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 406 | 0.81 | 327.86 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 406 | 0.56 | 226.91 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 406 | 0.11 | 42.74 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 406 | 0.55 | 221.50 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 406 | 1.48 | 599.14 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 406 | 0.12 | 50.42 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 406 | 0.65 | 262.70 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 406 | 1.71 | 694.98 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 406 | 0.19 | 75.83 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 406 | 0.15 | 60.18 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 406 | 0.15 | 62.08 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 406 | 0.15 | 61.68 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 406 | 0.10 | 38.58 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 406 | 0.15 | 62.00 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 406 | 0.37 | 150.49 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 406 | 0.09 | 34.72 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 406 | 0.38 | 153.31 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 406 | 0.15 | 62.46 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 406 | 1.50 | 610.15 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 406 | 0.37 | 148.56 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 406 | 0.09 | 37.76 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 406 | 0.09 | 38.11 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 406 | 0.09 | 38.43 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 406 | 0.92 | 374.47 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 406 | 0.13 | 54.13 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 406 | 0.16 | 63.89 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 406 | 0.17 | 67.67 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 406 | 0.15 | 62.46 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 406 | 0.12 | 50.22 |

**TABEL DATA PERHITUNGAN LAYANAN LAHAN MENGGUNAKAN *SOAP***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Lahan |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1777 | 0.58 | 1023.21 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 1777 | 0.06 | 112.04 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1777 | 0.57 | 1015.09 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1777 | 0.60 | 1072.29 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1777 | 0.58 | 1036.96 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1777 | 0.58 | 1036.96 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 1777 | 1.15 | 2036.66 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1777 | 0.71 | 1260.53 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1777 | 0.91 | 1619.91 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1777 | 1.05 | 1865.29 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1777 | 0.51 | 913.09 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1777 | 0.91 | 1621.13 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1777 | 0.91 | 1619.91 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1777 | 0.49 | 874.88 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1777 | 0.47 | 827.12 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 1777 | 0.76 | 1352.70 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1777 | 0.57 | 1016.35 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1777 | 0.92 | 1636.31 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 1777 | 0.57 | 1011.86 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1777 | 0.60 | 1065.08 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1777 | 0.59 | 1050.79 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 1777 | 0.84 | 1498.34 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 1777 | 0.84 | 1484.57 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 1777 | 0.08 | 147.59 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 1777 | 0.50 | 890.92 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 1777 | 0.53 | 933.24 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1777 | 0.50 | 892.45 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 1777 | 0.08 | 149.70 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 1777 | 0.82 | 1464.57 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 1777 | 0.24 | 424.93 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1777 | 0.05 | 85.23 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1777 | 0.05 | 89.97 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 1777 | 0.23 | 415.00 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1777 | 0.06 | 104.30 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1777 | 0.89 | 1586.43 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1777 | 0.48 | 854.55 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1777 | 0.46 | 815.34 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1777 | 0.48 | 854.55 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1777 | 0.45 | 804.27 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1777 | 0.05 | 85.23 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1777 | 0.49 | 871.24 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1777 | 0.60 | 1064.42 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1777 | 0.62 | 1099.53 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1777 | 0.61 | 1086.09 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1777 | 0.63 | 1111.01 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 1777 | 0.61 | 1077.69 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1777 | 0.53 | 937.64 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1777 | 0.53 | 947.98 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1777 | 0.53 | 942.95 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1777 | 0.68 | 1201.12 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 1777 | 0.52 | 932.25 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 1777 | 0.53 | 941.48 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 1777 | 0.51 | 903.45 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 1777 | 0.23 | 406.92 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 1777 | 0.25 | 449.63 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 1777 | 0.26 | 454.41 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 1777 | 0.25 | 449.65 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 1777 | 0.34 | 602.15 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 1777 | 0.82 | 1457.80 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 1777 | 0.06 | 105.03 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 1777 | 0.23 | 415.00 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1777 | 0.18 | 316.35 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 1777 | 0.07 | 127.76 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 1777 | 0.25 | 436.17 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 1777 | 0.35 | 616.14 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 1777 | 0.10 | 181.07 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 1777 | 0.11 | 193.56 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1777 | 0.10 | 180.48 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1777 | 0.11 | 196.10 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 1777 | 0.06 | 111.03 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 1777 | 0.11 | 195.13 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 1777 | 0.13 | 226.31 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 1777 | 0.05 | 88.04 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 1777 | 0.14 | 246.81 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1777 | 0.10 | 182.33 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 1777 | 0.64 | 1135.25 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 1777 | 0.67 | 1199.14 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 1777 | 0.06 | 108.96 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 1777 | 0.06 | 108.30 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 1777 | 0.05 | 80.63 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 1777 | 0.23 | 414.79 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1777 | 0.10 | 180.48 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 1777 | 0.10 | 181.07 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 1777 | 0.10 | 179.25 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 1777 | 0.10 | 181.07 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 1777 | 0.09 | 157.48 |

**TABEL DATA PERHITUNGAN LAYANAN PEMBIBIT MENGGUNAKAN *RESTFUL***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Pembibit |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1057 | 0.52 | 552.49 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 1057 | 0.07 | 72.59 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1057 | 0.60 | 632.43 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1057 | 0.57 | 599.11 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1057 | 0.62 | 658.28 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1057 | 0.62 | 658.28 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 1057 | 0.98 | 1037.54 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1057 | 0.38 | 405.65 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1057 | 0.60 | 637.20 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1057 | 0.57 | 597.56 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1057 | 0.27 | 287.29 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1057 | 0.59 | 625.24 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1057 | 0.58 | 609.78 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1057 | 0.28 | 290.84 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1057 | 0.28 | 290.84 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 1057 | 0.38 | 405.65 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1057 | 0.28 | 290.84 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1057 | 1.36 | 1441.19 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 1057 | 0.94 | 993.38 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1057 | 0.22 | 228.08 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1057 | 0.21 | 226.94 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 1057 | 0.91 | 961.06 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 1057 | 0.94 | 998.27 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 1057 | 0.08 | 83.68 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 1057 | 0.39 | 411.87 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 1057 | 0.39 | 410.62 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1057 | 0.33 | 346.45 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 1057 | 0.08 | 84.17 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 1057 | 0.52 | 551.32 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 1057 | 0.27 | 283.24 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1057 | 0.05 | 54.05 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1057 | 0.05 | 53.78 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 1057 | 0.25 | 268.84 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1057 | 0.05 | 53.92 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1057 | 0.27 | 286.91 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1057 | 0.37 | 393.80 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1057 | 0.35 | 366.49 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1057 | 0.36 | 379.65 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1057 | 0.37 | 393.80 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1057 | 0.05 | 53.64 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1057 | 0.39 | 409.04 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1057 | 0.27 | 286.91 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1057 | 0.28 | 294.91 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1057 | 0.28 | 297.69 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1057 | 0.27 | 289.45 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 1057 | 0.37 | 393.65 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1057 | 0.27 | 290.32 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1057 | 0.27 | 282.49 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1057 | 0.28 | 294.91 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1057 | 0.28 | 291.04 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 1057 | 0.28 | 299.29 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 1057 | 0.38 | 405.74 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 1057 | 0.21 | 218.76 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 1057 | 0.19 | 202.04 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 1057 | 0.22 | 232.36 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 1057 | 0.22 | 231.94 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 1057 | 0.23 | 243.93 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 1057 | 0.41 | 430.08 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 1057 | 0.18 | 186.87 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 1057 | 0.07 | 77.38 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 1057 | 0.21 | 223.38 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1057 | 0.38 | 401.25 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 1057 | 0.06 | 58.21 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 1057 | 0.62 | 657.82 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 1057 | 0.65 | 682.44 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 1057 | 0.09 | 96.77 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 1057 | 0.09 | 90.41 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1057 | 0.09 | 91.43 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1057 | 0.09 | 90.49 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 1057 | 0.07 | 75.69 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 1057 | 0.09 | 92.41 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 1057 | 0.30 | 317.21 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 1057 | 0.06 | 60.13 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 1057 | 0.27 | 289.08 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1057 | 0.09 | 95.20 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 1057 | 0.98 | 1032.81 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 1057 | 0.55 | 577.04 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 1057 | 0.08 | 80.33 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 1057 | 0.08 | 80.95 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 1057 | 0.05 | 50.94 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 1057 | 0.65 | 682.44 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1057 | 0.09 | 90.65 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 1057 | 0.10 | 106.52 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 1057 | 0.09 | 99.15 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 1057 | 0.09 | 99.15 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 1057 | 0.09 | 100.20 |

**TABEL DATA PERHITUNGAN LAYANAN PEMBIBIT MENGGUNAKAN *SOAP***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Pembibit |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.33 | 1087.95 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.05 | 150.49 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.37 | 1200.96 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.32 | 1044.38 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.34 | 1125.26 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.37 | 1208.13 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3281 | 0.62 | 2036.66 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3281 | 0.38 | 1260.53 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.49 | 1619.91 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.57 | 1865.29 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.28 | 913.09 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.49 | 1621.13 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.49 | 1619.91 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.27 | 874.88 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.25 | 827.12 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 3281 | 0.41 | 1352.70 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.31 | 1016.35 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.50 | 1636.31 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3281 | 0.72 | 2350.01 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.13 | 436.78 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.13 | 434.36 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.32 | 1053.99 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.32 | 1047.16 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.04 | 147.59 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.27 | 890.92 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 3281 | 0.28 | 933.24 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3281 | 0.21 | 685.80 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.05 | 163.47 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.32 | 1037.16 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.13 | 424.93 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3281 | 0.03 | 105.46 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3281 | 0.03 | 106.09 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.13 | 415.00 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3281 | 0.03 | 104.30 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.13 | 431.30 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.19 | 639.33 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.19 | 617.13 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.18 | 596.42 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.19 | 632.51 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3281 | 0.03 | 99.55 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.18 | 604.50 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.13 | 431.30 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.12 | 384.95 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.15 | 488.70 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.15 | 493.69 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3281 | 0.15 | 487.00 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.14 | 456.21 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.14 | 458.64 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.14 | 457.46 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3281 | 0.15 | 496.44 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3281 | 0.14 | 454.92 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 3281 | 0.25 | 818.81 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3281 | 0.16 | 531.16 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3281 | 0.16 | 531.16 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.14 | 452.24 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.14 | 445.62 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 3281 | 0.14 | 463.41 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3281 | 0.25 | 830.44 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3281 | 0.12 | 398.74 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.05 | 177.61 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 3281 | 0.14 | 465.50 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3281 | 0.29 | 951.79 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 3281 | 0.04 | 127.76 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3281 | 0.39 | 1273.87 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 3281 | 0.34 | 1124.48 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.06 | 193.96 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3281 | 0.06 | 193.25 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3281 | 0.06 | 183.49 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3281 | 0.06 | 186.71 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 3281 | 0.05 | 164.28 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3281 | 0.06 | 194.53 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3281 | 0.20 | 665.38 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3281 | 0.05 | 147.88 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3281 | 0.14 | 453.35 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3281 | 0.06 | 183.39 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 3281 | 0.62 | 2026.91 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 3281 | 0.31 | 1024.48 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3281 | 0.06 | 193.39 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3281 | 0.05 | 178.29 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3281 | 0.04 | 131.13 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3281 | 0.34 | 1124.48 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3281 | 0.06 | 194.36 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3281 | 0.06 | 183.13 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.06 | 193.96 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3281 | 0.06 | 183.13 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 3281 | 0.06 | 201.32 |

**TABEL DATA PERHITUNGAN LAYANAN *STORE* MENGGUNAKAN *RESTFUL***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan *Store* |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3397 | 0.27 | 915.64 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 3397 | 0.05 | 158.53 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3397 | 0.27 | 915.64 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3397 | 0.26 | 899.78 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3397 | 0.25 | 833.55 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3397 | 0.25 | 854.52 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3397 | 0.41 | 1396.41 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3397 | 0.27 | 915.64 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3397 | 0.31 | 1050.84 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3397 | 0.30 | 1019.31 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3397 | 0.20 | 685.14 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3397 | 0.29 | 995.12 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3397 | 0.27 | 914.73 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3397 | 0.20 | 671.60 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3397 | 0.20 | 667.64 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 3397 | 0.26 | 891.60 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3397 | 0.21 | 699.25 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3397 | 0.30 | 1019.31 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3397 | 0.39 | 1341.28 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3397 | 0.20 | 685.14 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3397 | 0.20 | 671.60 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3397 | 0.33 | 1120.14 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3397 | 0.31 | 1044.38 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3397 | 0.08 | 258.53 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 3397 | 0.25 | 860.37 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 3397 | 0.27 | 906.28 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3397 | 0.19 | 646.05 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3397 | 0.07 | 254.66 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3397 | 0.29 | 989.61 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3397 | 0.15 | 508.94 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3397 | 0.04 | 120.40 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3397 | 0.03 | 112.43 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3397 | 0.14 | 487.05 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3397 | 0.03 | 111.33 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3397 | 0.27 | 913.24 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3397 | 0.25 | 839.12 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3397 | 0.24 | 807.90 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3397 | 0.29 | 985.12 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3397 | 0.25 | 860.37 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3397 | 0.03 | 102.28 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3397 | 0.25 | 839.12 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3397 | 0.26 | 882.73 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3397 | 0.25 | 849.12 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3397 | 0.27 | 915.45 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3397 | 0.26 | 891.43 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3397 | 0.25 | 846.98 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3397 | 0.26 | 885.24 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3397 | 0.25 | 841.69 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3397 | 0.24 | 801.95 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3397 | 0.24 | 826.37 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3397 | 0.26 | 868.63 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 3397 | 0.24 | 827.58 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3397 | 0.11 | 373.10 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3397 | 0.11 | 386.23 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3397 | 0.17 | 575.25 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3397 | 0.16 | 551.66 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 3397 | 0.20 | 679.29 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3397 | 0.22 | 745.79 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3397 | 0.05 | 173.49 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3397 | 0.08 | 259.72 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 3397 | 0.16 | 534.31 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3397 | 0.23 | 776.12 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 3397 | 0.06 | 189.34 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3397 | 0.22 | 734.77 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 3397 | 0.21 | 719.22 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3397 | 0.05 | 162.29 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3397 | 0.05 | 154.89 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3397 | 0.05 | 155.60 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3397 | 0.04 | 148.13 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 3397 | 0.04 | 139.97 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3397 | 0.05 | 156.31 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3397 | 0.19 | 628.98 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3397 | 0.04 | 120.16 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3397 | 0.18 | 606.52 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3397 | 0.05 | 162.29 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 3397 | 0.34 | 1145.73 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 3397 | 0.21 | 726.69 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3397 | 0.04 | 139.97 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3397 | 0.04 | 138.26 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3397 | 0.03 | 112.22 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3397 | 0.21 | 704.31 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3397 | 0.05 | 160.00 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3397 | 0.05 | 171.29 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3397 | 0.05 | 180.39 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3397 | 0.05 | 177.56 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 3397 | 0.06 | 191.67 |

**TABEL DATA PERHITUNGAN LAYANAN *STORE* MENGGUNAKAN *SOAP***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan *Store* |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 11082 | 0.21 | 2289.09 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 11082 | 0.04 | 396.33 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 11082 | 0.21 | 2289.09 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 11082 | 0.20 | 2249.46 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 11082 | 0.19 | 2083.87 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 11082 | 0.19 | 2136.29 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 11082 | 0.26 | 2932.47 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 11082 | 0.17 | 1922.83 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 11082 | 0.20 | 2206.76 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 11082 | 0.19 | 2140.54 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 11082 | 0.13 | 1438.80 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 11082 | 0.19 | 2089.76 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 11082 | 0.17 | 1920.94 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 11082 | 0.13 | 1410.36 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 11082 | 0.13 | 1402.04 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 11082 | 0.17 | 1872.37 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 11082 | 0.13 | 1468.42 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 11082 | 0.19 | 2140.54 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 11082 | 0.25 | 2816.68 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 11082 | 0.14 | 1507.32 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 11082 | 0.13 | 1477.52 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 11082 | 0.22 | 2464.30 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 11082 | 0.21 | 2297.63 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 11082 | 0.05 | 568.77 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 11082 | 0.17 | 1892.82 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 11082 | 0.18 | 1993.81 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 11082 | 0.13 | 1421.32 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 11082 | 0.05 | 560.25 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 11082 | 0.20 | 2177.14 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 11082 | 0.10 | 1119.68 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 11082 | 0.02 | 264.88 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 11082 | 0.02 | 247.35 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 11082 | 0.10 | 1071.52 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 11082 | 0.02 | 244.92 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 11082 | 0.18 | 2009.12 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 11082 | 0.17 | 1846.06 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 11082 | 0.16 | 1777.38 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 11082 | 0.20 | 2167.27 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 11082 | 0.17 | 1892.82 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 11082 | 0.02 | 225.01 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 11082 | 0.17 | 1846.06 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 11082 | 0.18 | 1942.00 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 11082 | 0.17 | 1868.05 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 11082 | 0.18 | 2013.99 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 11082 | 0.18 | 1961.14 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 11082 | 0.17 | 1863.35 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 11082 | 0.18 | 1947.53 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 11082 | 0.17 | 1851.73 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 11082 | 0.16 | 1764.30 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 11082 | 0.16 | 1818.02 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 11082 | 0.17 | 1910.99 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 11082 | 0.16 | 1820.68 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 11082 | 0.07 | 820.83 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 11082 | 0.08 | 849.71 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 11082 | 0.11 | 1265.55 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 11082 | 0.11 | 1213.65 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 11082 | 0.13 | 1494.45 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 11082 | 0.15 | 1640.74 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 11082 | 0.03 | 381.68 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 11082 | 0.05 | 571.39 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 11082 | 0.11 | 1175.48 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 11082 | 0.15 | 1707.47 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 11082 | 0.04 | 416.54 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 11082 | 0.15 | 1616.50 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 11082 | 0.14 | 1582.28 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 11082 | 0.03 | 357.03 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 11082 | 0.03 | 340.76 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 11082 | 0.03 | 342.32 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 11082 | 0.03 | 325.90 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 11082 | 0.03 | 307.93 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 11082 | 0.03 | 343.89 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 11082 | 0.12 | 1383.76 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 11082 | 0.02 | 264.36 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 11082 | 0.12 | 1334.35 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 11082 | 0.03 | 357.03 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 11082 | 0.23 | 2520.61 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 11082 | 0.14 | 1598.73 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 11082 | 0.03 | 307.93 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 11082 | 0.03 | 304.17 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 11082 | 0.02 | 246.89 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 11082 | 0.14 | 1549.47 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 11082 | 0.03 | 351.99 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 11082 | 0.03 | 376.84 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 11082 | 0.04 | 396.85 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 11082 | 0.04 | 390.63 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 11082 | 0.04 | 421.68 |

**TABEL DATA PERHITUNGAN LAYANAN TENAGA MENGGUNAKAN *RESTFUL***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Tenaga |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 358 | 2.48 | 887.96 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 358 | 0.22 | 78.98 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 358 | 1.99 | 711.49 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 358 | 1.95 | 697.62 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 358 | 2.03 | 725.91 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 358 | 2.07 | 740.94 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 358 | 3.43 | 1226.20 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 358 | 2.14 | 766.89 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 358 | 2.82 | 1009.70 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 358 | 2.53 | 907.34 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 358 | 1.55 | 556.39 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 358 | 2.60 | 930.93 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 358 | 3.39 | 1215.37 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 358 | 1.55 | 556.47 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 358 | 1.55 | 556.47 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 358 | 2.01 | 720.58 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 358 | 1.55 | 556.47 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 358 | 2.72 | 974.53 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 358 | 3.41 | 1219.42 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 358 | 1.55 | 556.47 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 358 | 1.58 | 564.40 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 358 | 2.89 | 1036.31 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 358 | 2.24 | 803.67 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 358 | 0.21 | 76.67 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 358 | 1.69 | 605.88 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 358 | 1.45 | 518.19 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 358 | 0.95 | 341.58 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 358 | 0.18 | 64.64 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 358 | 2.72 | 973.02 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 358 | 0.53 | 191.42 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 358 | 0.09 | 33.98 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 358 | 0.09 | 33.51 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 358 | 0.51 | 181.70 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 358 | 0.09 | 33.71 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 358 | 1.41 | 506.23 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 358 | 1.50 | 536.58 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 358 | 1.76 | 631.18 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 358 | 1.42 | 510.02 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 358 | 1.41 | 506.23 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 358 | 0.09 | 30.44 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 358 | 1.51 | 540.83 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 358 | 1.78 | 638.82 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 358 | 1.76 | 631.18 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 358 | 1.79 | 639.08 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 358 | 1.75 | 627.62 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 358 | 1.56 | 559.03 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 358 | 1.65 | 590.77 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 358 | 1.54 | 550.42 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 358 | 1.76 | 631.18 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 358 | 1.78 | 638.82 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 358 | 1.78 | 638.82 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 358 | 1.76 | 631.18 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 358 | 0.29 | 102.41 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 358 | 0.29 | 102.41 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 358 | 0.54 | 194.40 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 358 | 0.52 | 184.39 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 358 | 0.50 | 179.76 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 358 | 1.20 | 429.10 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 358 | 0.30 | 108.61 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 358 | 0.16 | 57.36 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 358 | 0.53 | 191.42 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 358 | 1.55 | 556.47 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 358 | 0.11 | 39.86 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 358 | 1.46 | 523.42 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 358 | 1.33 | 477.92 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 358 | 0.23 | 81.78 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 358 | 0.15 | 53.06 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 358 | 0.14 | 51.57 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 358 | 0.15 | 54.68 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 358 | 0.13 | 46.78 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 358 | 0.15 | 54.70 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 358 | 0.34 | 122.75 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 358 | 0.09 | 32.90 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 358 | 0.38 | 134.77 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 358 | 0.14 | 51.57 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 358 | 2.52 | 900.96 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 358 | 0.35 | 124.73 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 358 | 0.13 | 44.86 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 358 | 0.13 | 45.43 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 358 | 0.08 | 28.48 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 358 | 1.82 | 651.99 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 358 | 0.14 | 51.57 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 358 | 0.23 | 81.78 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 358 | 0.20 | 72.45 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 358 | 0.25 | 90.83 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 358 | 0.22 | 78.70 |

**TABEL DATA PERHITUNGAN LAYANAN TENAGA MENGGUNAKAN *SOAP***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Tenaga |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1752 | 1.06 | 1864.72 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 1752 | 0.09 | 165.87 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1752 | 0.85 | 1494.12 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1752 | 0.84 | 1465.01 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1752 | 0.87 | 1524.42 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1752 | 0.89 | 1555.97 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 1752 | 1.47 | 2575.03 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 1752 | 0.92 | 1610.47 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1752 | 1.21 | 2120.37 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1752 | 1.09 | 1905.41 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1752 | 0.67 | 1168.41 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1752 | 1.12 | 1954.96 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1752 | 1.46 | 2552.28 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1752 | 0.67 | 1168.59 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1752 | 0.67 | 1168.59 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 1752 | 0.86 | 1513.22 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1752 | 0.67 | 1168.59 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 1752 | 1.17 | 2046.52 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 1752 | 1.46 | 2560.79 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1752 | 0.67 | 1168.59 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1752 | 0.68 | 1185.23 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 1752 | 1.24 | 2176.25 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 1752 | 0.96 | 1687.71 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 1752 | 0.09 | 161.01 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 1752 | 0.73 | 1272.36 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 1752 | 0.62 | 1088.19 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 1752 | 0.41 | 717.32 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 1752 | 0.08 | 135.75 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 1752 | 1.17 | 2043.33 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 1752 | 0.23 | 401.97 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1752 | 0.04 | 71.37 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1752 | 0.04 | 70.36 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 1752 | 0.22 | 381.57 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1752 | 0.04 | 70.78 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1752 | 0.61 | 1063.07 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1752 | 0.64 | 1126.81 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1752 | 0.76 | 1325.47 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1752 | 0.61 | 1071.03 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1752 | 0.61 | 1063.07 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 1752 | 0.04 | 63.92 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1752 | 0.65 | 1135.75 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1752 | 0.77 | 1341.52 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1752 | 0.76 | 1325.47 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1752 | 0.77 | 1342.06 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1752 | 0.75 | 1318.00 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 1752 | 0.67 | 1173.97 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1752 | 0.71 | 1240.61 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1752 | 0.66 | 1155.89 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1752 | 0.76 | 1325.47 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 1752 | 0.77 | 1341.52 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 1752 | 0.77 | 1341.52 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 1752 | 0.76 | 1325.47 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 1752 | 0.12 | 215.06 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 1752 | 0.12 | 215.06 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 1752 | 0.23 | 408.24 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 1752 | 0.22 | 387.22 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 1752 | 0.22 | 377.50 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 1752 | 0.51 | 901.11 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 1752 | 0.13 | 228.09 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 1752 | 0.07 | 120.45 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 1752 | 0.23 | 401.97 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 1752 | 0.67 | 1168.59 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 1752 | 0.05 | 83.71 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 1752 | 0.63 | 1099.18 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 1752 | 0.57 | 1003.62 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 1752 | 0.10 | 171.75 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 1752 | 0.06 | 111.43 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1752 | 0.06 | 108.30 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1752 | 0.07 | 114.83 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 1752 | 0.06 | 98.24 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 1752 | 0.07 | 114.88 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 1752 | 0.15 | 257.78 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 1752 | 0.04 | 69.10 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 1752 | 0.16 | 283.01 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1752 | 0.06 | 108.30 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 1752 | 1.08 | 1892.01 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 1752 | 0.15 | 261.93 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 1752 | 0.05 | 94.20 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 1752 | 0.05 | 95.40 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 1752 | 0.03 | 59.81 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 1752 | 0.78 | 1369.18 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 1752 | 0.06 | 108.30 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 1752 | 0.10 | 171.75 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 1752 | 0.09 | 152.14 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 1752 | 0.11 | 190.74 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 1752 | 0.10 | 173.13 |

**TABEL DATA PERHITUNGAN LAYANAN TRAKTOR MENGGUNAKAN *RESTFUL***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Traktor |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 848 | 0.81 | 686.22 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 848 | 0.12 | 100.02 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 848 | 0.81 | 687.07 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 848 | 1.04 | 883.77 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 848 | 0.69 | 583.06 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 848 | 0.74 | 626.11 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 848 | 1.15 | 975.18 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 848 | 0.74 | 626.11 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 848 | 0.92 | 778.09 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 848 | 0.84 | 710.61 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 848 | 0.53 | 452.80 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 848 | 0.85 | 716.62 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 848 | 0.91 | 775.61 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 848 | 0.53 | 445.66 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 848 | 0.54 | 453.77 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 848 | 0.74 | 626.11 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 848 | 0.55 | 462.68 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 848 | 0.89 | 750.54 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 848 | 0.98 | 830.05 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 848 | 0.46 | 385.93 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 848 | 0.57 | 479.50 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 848 | 0.84 | 712.69 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 848 | 0.88 | 743.53 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 848 | 0.12 | 102.02 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 848 | 0.70 | 595.66 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 848 | 0.62 | 522.28 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 848 | 0.56 | 470.76 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 848 | 0.12 | 104.73 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 848 | 0.90 | 762.33 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 848 | 0.25 | 211.28 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 848 | 0.11 | 93.15 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 848 | 0.11 | 92.14 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 848 | 0.25 | 211.28 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 848 | 0.11 | 92.14 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 848 | 0.69 | 582.51 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 848 | 0.64 | 545.07 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 848 | 0.80 | 675.28 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 848 | 0.80 | 680.70 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 848 | 0.74 | 625.47 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 848 | 0.11 | 91.15 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 848 | 0.73 | 616.38 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 848 | 0.68 | 577.54 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 848 | 0.67 | 571.81 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 848 | 0.74 | 624.31 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 848 | 0.69 | 581.50 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 848 | 0.68 | 574.68 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 848 | 0.72 | 612.63 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 848 | 0.65 | 547.70 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 848 | 0.64 | 545.07 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 848 | 0.68 | 577.54 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 848 | 0.68 | 577.54 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 848 | 0.65 | 548.17 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 848 | 0.13 | 110.77 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 848 | 0.13 | 109.11 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 848 | 0.25 | 211.28 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 848 | 0.25 | 208.43 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 848 | 0.24 | 201.25 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 848 | 0.46 | 385.93 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 848 | 0.13 | 107.72 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 848 | 0.09 | 75.81 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 848 | 0.25 | 211.28 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 848 | 0.79 | 668.51 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 848 | 0.10 | 83.33 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 848 | 0.27 | 226.62 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 848 | 0.71 | 604.96 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 848 | 0.12 | 103.41 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 848 | 0.11 | 93.59 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 848 | 0.11 | 95.48 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 848 | 0.11 | 91.57 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 848 | 0.10 | 82.64 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 848 | 0.11 | 93.38 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 848 | 1.12 | 953.29 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 848 | 0.09 | 74.83 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 848 | 0.28 | 235.12 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 848 | 0.10 | 86.65 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 848 | 0.84 | 715.00 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 848 | 0.25 | 211.28 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 848 | 0.10 | 86.56 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 848 | 0.09 | 78.61 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 848 | 0.07 | 59.89 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 848 | 0.24 | 201.82 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 848 | 0.11 | 95.48 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 848 | 0.12 | 104.25 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 848 | 0.12 | 105.03 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 848 | 0.12 | 105.90 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 848 | 0.11 | 92.16 |

**TABEL DATA PERHITUNGAN LAYANAN TRAKTOR MENGGUNAKAN *SOAP***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan Traktor |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3710 | 0.37 | 1372.45 |
| 2 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 3710 | 0.05 | 200.04 |
| 3 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3710 | 0.37 | 1374.14 |
| 4 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3710 | 0.48 | 1767.53 |
| 5 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3710 | 0.31 | 1166.11 |
| 6 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3710 | 0.34 | 1252.21 |
| 7 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3710 | 0.53 | 1950.36 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 3710 | 0.34 | 1252.21 |
| 9 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3710 | 0.42 | 1556.18 |
| 10 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3710 | 0.38 | 1421.22 |
| 11 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3710 | 0.24 | 905.60 |
| 12 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3710 | 0.39 | 1433.23 |
| 13 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3710 | 0.42 | 1551.21 |
| 14 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3710 | 0.24 | 891.32 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3710 | 0.24 | 907.54 |
| 16 | Lollipop | *Quad Core 1.3 GHz Cortex A7* | 3710 | 0.34 | 1252.21 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3710 | 0.25 | 925.36 |
| 18 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 3710 | 0.40 | 1501.08 |
| 19 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 3710 | 0.45 | 1660.11 |
| 20 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3710 | 0.21 | 771.85 |
| 21 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3710 | 0.26 | 959.00 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3710 | 0.38 | 1425.39 |
| 23 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3710 | 0.40 | 1487.05 |
| 24 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3710 | 0.05 | 204.04 |
| 25 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 3710 | 0.32 | 1191.31 |
| 26 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 3710 | 0.28 | 1044.57 |
| 27 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3710 | 0.25 | 941.53 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 3710 | 0.06 | 209.47 |
| 29 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 3710 | 0.41 | 1524.66 |
| 30 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3710 | 0.11 | 422.57 |
| 31 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3710 | 0.05 | 186.30 |
| 32 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3710 | 0.05 | 184.27 |
| 33 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 3710 | 0.11 | 422.57 |
| 34 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3710 | 0.05 | 184.27 |
| 35 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3710 | 0.31 | 1165.02 |
| 36 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3710 | 0.29 | 1090.13 |
| 37 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3710 | 0.36 | 1350.56 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3710 | 0.37 | 1361.41 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3710 | 0.34 | 1250.95 |
| 40 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 3710 | 0.05 | 182.29 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3710 | 0.33 | 1232.76 |
| 42 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3710 | 0.31 | 1155.08 |
| 43 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3710 | 0.31 | 1143.62 |
| 44 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3710 | 0.34 | 1248.62 |
| 45 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3710 | 0.31 | 1163.00 |
| 46 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3710 | 0.31 | 1149.35 |
| 47 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3710 | 0.33 | 1225.25 |
| 48 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3710 | 0.30 | 1095.39 |
| 49 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3710 | 0.29 | 1090.13 |
| 50 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 3710 | 0.31 | 1155.08 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 3710 | 0.31 | 1155.08 |
| 52 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 3710 | 0.30 | 1096.34 |
| 53 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3710 | 0.06 | 221.53 |
| 54 | Oreo | *Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53* | 3710 | 0.06 | 218.21 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3710 | 0.11 | 422.57 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3710 | 0.11 | 416.86 |
| 57 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 3710 | 0.11 | 402.51 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3710 | 0.21 | 771.85 |
| 59 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3710 | 0.06 | 215.44 |
| 60 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 3710 | 0.04 | 151.62 |
| 61 | Oreo | *Quad-core 1.5 GHz Cortex-A53* | 3710 | 0.11 | 422.57 |
| 62 | Oreo | *Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 3710 | 0.36 | 1337.01 |
| 63 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 3710 | 0.05 | 191.65 |
| 64 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3710 | 0.13 | 498.56 |
| 65 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 3710 | 0.36 | 1330.91 |
| 66 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3710 | 0.06 | 227.49 |
| 67 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3710 | 0.06 | 205.90 |
| 68 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3710 | 0.06 | 210.05 |
| 69 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3710 | 0.05 | 201.45 |
| 70 | Pie | *Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53* | 3710 | 0.05 | 181.82 |
| 71 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 3710 | 0.06 | 205.43 |
| 72 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3710 | 0.57 | 2097.24 |
| 73 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3710 | 0.04 | 164.63 |
| 74 | Pie | *Octa-core 1.8 GHz Kryo 260* | 3710 | 0.14 | 517.27 |
| 75 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3710 | 0.05 | 190.62 |
| 76 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 3710 | 0.42 | 1573.00 |
| 77 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 3710 | 0.13 | 464.82 |
| 78 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3710 | 0.05 | 190.42 |
| 79 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 3710 | 0.05 | 172.95 |
| 80 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 3710 | 0.04 | 131.76 |
| 81 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3710 | 0.12 | 444.01 |
| 82 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 3710 | 0.06 | 210.05 |
| 83 | Pie | *Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3710 | 0.06 | 229.35 |
| 84 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3710 | 0.06 | 231.06 |
| 85 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 3710 | 0.06 | 232.98 |
| 86 | Pie | *Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo* | 3710 | 0.05 | 202.74 |

**TABEL DATA PERHITUNGAN LAYANAN *TRANSPORT* MENGGUNAKAN *RESTFUL***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan *Transport* |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 1199 | 0.62 | 738.14 |
| 2 | Lollipop | Octa-core 2.0 GHz Cortex-A53 | 1199 | 0.08 | 97.73 |
| 3 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 1199 | 0.58 | 695.34 |
| 4 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 1199 | 0.63 | 756.66 |
| 5 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 1199 | 0.58 | 695.34 |
| 6 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 1199 | 0.58 | 695.34 |
| 7 | Lollipop | Quad-core 1.0 GHz Cortex-A53 | 1199 | 0.80 | 953.83 |
| 8 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 1199 | 0.51 | 611.02 |
| 9 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 1199 | 0.68 | 817.30 |
| 10 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 1199 | 0.70 | 841.75 |
| 11 | Lollipop | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 1199 | 0.33 | 399.94 |
| 12 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 1199 | 0.73 | 877.71 |
| 13 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 1199 | 0.68 | 817.84 |
| 14 | Lollipop | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 1199 | 0.35 | 413.74 |
| 15 | Lollipop | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 1199 | 0.33 | 399.94 |
| 16 | Lollipop | Quad Core 1.3 GHz Cortex A7 | 1199 | 0.52 | 620.51 |
| 17 | Lollipop | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 1199 | 0.38 | 458.27 |
| 18 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 1199 | 0.73 | 877.08 |
| 19 | Lollipop | Quad-core 1.0 GHz Cortex-A53 | 1199 | 0.79 | 946.30 |
| 20 | Marshmallow | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 1199 | 0.35 | 413.74 |
| 21 | Marshmallow | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 1199 | 0.35 | 420.37 |
| 22 | Marshmallow | Quad-core 1.2 GHz Cortex-A53 | 1199 | 0.70 | 844.90 |
| 23 | Marshmallow | Quad-core 1.2 GHz Cortex-A53 | 1199 | 0.69 | 822.87 |
| 24 | Marshmallow | Octa-core 2.0 GHz Cortex-A53 | 1199 | 0.08 | 98.23 |
| 25 | Marshmallow | Octa-core 1.4 GHz Cortex-A53 | 1199 | 0.43 | 519.66 |
| 26 | Marshmallow | Quad-core 1.4 GHz Cortex-A53 | 1199 | 0.47 | 560.64 |
| 27 | Marshmallow | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 1199 | 0.32 | 389.40 |
| 28 | Marshmallow | Octa-core 2.0 GHz Cortex-A53 | 1199 | 0.08 | 96.13 |
| 29 | Marshmallow | Quad-core 1.2 GHz Cortex-A53 | 1199 | 0.74 | 884.70 |
| 30 | Nougat | Octa-core 1.8 GHz Cortex-A53 | 1199 | 0.13 | 160.09 |
| 31 | Nougat | Octa-core 2.5 GHz Cortex-A53 | 1199 | 0.06 | 72.03 |
| 32 | Nougat | Octa-core 2.5 GHz Cortex-A53 | 1199 | 0.06 | 71.60 |
| 33 | Nougat | Octa-core 1.8 GHz Cortex-A53 | 1199 | 0.13 | 160.09 |
| 34 | Nougat | Octa-core 2.5 GHz Cortex-A53 | 1199 | 0.04 | 52.59 |
| 35 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 1199 | 0.49 | 587.45 |
| 36 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 1199 | 0.47 | 560.01 |
| 37 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 1199 | 0.45 | 535.03 |
| 38 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 1199 | 0.45 | 541.37 |
| 39 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 1199 | 0.47 | 566.97 |
| 40 | Nougat | Octa-core 2.5 GHz Cortex-A53 | 1199 | 0.05 | 55.00 |
| 41 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 1199 | 0.49 | 587.45 |
| 42 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 1199 | 0.46 | 554.17 |
| 43 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 1199 | 0.44 | 529.69 |
| 44 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 1199 | 0.48 | 581.02 |
| 45 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 1199 | 0.48 | 581.02 |
| 46 | Nougat | Quad-core 1.4 GHz Cortex-A53 | 1199 | 0.43 | 519.04 |
| 47 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 1199 | 0.47 | 562.87 |
| 48 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 1199 | 0.46 | 556.74 |
| 49 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 1199 | 0.47 | 560.01 |
| 50 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 1199 | 0.44 | 529.69 |
| 51 | Nougat | Quad-core 1.4 GHz Cortex-A53 | 1199 | 0.46 | 554.17 |
| 52 | Oreo | Quad-core 1.4 GHz Cortex-A53 | 1199 | 0.44 | 522.45 |
| 53 | Oreo | Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53 | 1199 | 0.08 | 100.41 |
| 54 | Oreo | Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53 | 1199 | 0.09 | 107.72 |
| 55 | Oreo | Octa-core 1.8 GHz Cortex-A53 | 1199 | 0.14 | 168.14 |
| 56 | Oreo | Octa-core 1.8 GHz Cortex-A53 | 1199 | 0.16 | 195.56 |
| 57 | Oreo | Octa-core 1.8 GHz Kryo 260 | 1199 | 0.14 | 173.71 |
| 58 | Oreo | Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53 | 1199 | 0.46 | 557.09 |
| 59 | Oreo | Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260 | 1199 | 0.13 | 151.01 |
| 60 | Oreo | Octa-core 1.8 GHz Cortex-A53 | 1199 | 0.08 | 95.36 |
| 61 | Oreo | Quad-core 1.5 GHz Cortex-A53 | 1199 | 0.15 | 181.76 |
| 62 | Oreo | Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 1199 | 0.35 | 413.74 |
| 63 | Oreo | Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53 | 1199 | 0.07 | 83.50 |
| 64 | Pie | Octa-core 1.6 GHz Cortex-A53 | 1199 | 0.45 | 545.03 |
| 65 | Pie | Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53 | 1199 | 0.43 | 512.32 |
| 66 | Pie | Octa-core 2.0 GHz Cortex-A53 | 1199 | 0.08 | 93.14 |
| 67 | Pie | Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260 | 1199 | 0.08 | 91.95 |
| 68 | Pie | Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53 | 1199 | 0.08 | 91.95 |
| 69 | Pie | Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53 | 1199 | 0.08 | 91.95 |
| 70 | Pie | Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53 | 1199 | 0.05 | 61.42 |
| 71 | Pie | Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260 | 1199 | 0.08 | 94.94 |
| 72 | Pie | Octa-core 1.8 GHz Kryo 260 | 1199 | 0.32 | 386.36 |
| 73 | Pie | Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55 | 1199 | 0.06 | 66.80 |
| 74 | Pie | Octa-core 1.8 GHz Kryo 260 | 1199 | 0.20 | 240.44 |
| 75 | Pie | Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53 | 1199 | 0.07 | 88.33 |
| 76 | Pie | Quad-core 1.2 GHz Cortex-A53 | 1199 | 0.76 | 916.36 |
| 77 | Pie | Octa-core 1.8 GHz Cortex-A53 | 1199 | 0.28 | 333.37 |
| 78 | Pie | Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver | 1199 | 0.07 | 78.06 |
| 79 | Pie | Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver | 1199 | 0.07 | 78.57 |
| 80 | Pie | Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55 | 1199 | 0.05 | 54.53 |
| 81 | Pie | Octa-core 1.6 GHz Cortex-A53 | 1199 | 0.42 | 499.61 |
| 82 | Pie | Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53 | 1199 | 0.07 | 87.05 |
| 83 | Pie | Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53 | 1199 | 0.07 | 89.54 |
| 84 | Pie | Octa-core 2.0 GHz Cortex-A53 | 1199 | 0.08 | 92.98 |
| 85 | Pie | Octa-core 2.0 GHz Cortex-A53 | 1199 | 0.08 | 91.71 |
| 86 | Pie | Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo | 1199 | 0.08 | 99.58 |

**TABEL DATA PERHITUNGAN LAYANAN *TRANSPORT* MENGGUNAKAN *SOAP***

| No. | Android | Spesifikasi Kecepatan *CPU* | Layanan *Transport* |
| --- | --- | --- | --- |
| *Size**(bytes)* | *Time**(seconds)* | *Throughput**(bps)* |
| 1 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 5581 | 0.25 | 1372.45 |
| 2 | Lollipop | Octa-core 2.0 GHz Cortex-A53 | 5581 | 0.04 | 200.04 |
| 3 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 5581 | 0.25 | 1374.14 |
| 4 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 5581 | 0.32 | 1767.53 |
| 5 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 5581 | 0.21 | 1166.11 |
| 6 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 5581 | 0.22 | 1252.21 |
| 7 | Lollipop | Quad-core 1.0 GHz Cortex-A53 | 5581 | 0.35 | 1950.36 |
| 8 | Lollipop | Quad-core 1.3 GHz Cortex-A7 | 5581 | 0.22 | 1252.21 |
| 9 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 5581 | 0.28 | 1556.18 |
| 10 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 5581 | 0.25 | 1421.22 |
| 11 | Lollipop | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 5581 | 0.16 | 905.60 |
| 12 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 5581 | 0.26 | 1433.23 |
| 13 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 5581 | 0.28 | 1551.21 |
| 14 | Lollipop | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 5581 | 0.16 | 891.32 |
| 15 | Lollipop | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 5581 | 0.16 | 907.54 |
| 16 | Lollipop | Quad Core 1.3 GHz Cortex A7 | 5581 | 0.22 | 1252.21 |
| 17 | Lollipop | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 5581 | 0.17 | 925.36 |
| 18 | Lollipop | Quad-core 1.2 GHz Cortex-A53 | 5581 | 0.27 | 1501.08 |
| 19 | Lollipop | Quad-core 1.0 GHz Cortex-A53 | 5581 | 0.30 | 1660.11 |
| 20 | Marshmallow | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 5581 | 0.14 | 771.85 |
| 21 | Marshmallow | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 5581 | 0.17 | 959.00 |
| 22 | Marshmallow | Quad-core 1.2 GHz Cortex-A53 | 5581 | 0.26 | 1425.39 |
| 23 | Marshmallow | Quad-core 1.2 GHz Cortex-A53 | 5581 | 0.27 | 1487.05 |
| 24 | Marshmallow | Octa-core 2.0 GHz Cortex-A53 | 5581 | 0.04 | 204.04 |
| 25 | Marshmallow | Octa-core 1.4 GHz Cortex-A53 | 5581 | 0.21 | 1191.31 |
| 26 | Marshmallow | Quad-core 1.4 GHz Cortex-A53 | 5581 | 0.19 | 1044.57 |
| 27 | Marshmallow | Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53 | 5581 | 0.17 | 941.53 |
| 28 | Marshmallow | Octa-core 2.0 GHz Cortex-A53 | 5581 | 0.04 | 209.47 |
| 29 | Marshmallow | Quad-core 1.2 GHz Cortex-A53 | 5581 | 0.27 | 1524.66 |
| 30 | Nougat | Octa-core 1.8 GHz Cortex-A53 | 5581 | 0.08 | 422.57 |
| 31 | Nougat | Octa-core 2.5 GHz Cortex-A53 | 5581 | 0.03 | 186.30 |
| 32 | Nougat | Octa-core 2.5 GHz Cortex-A53 | 5581 | 0.03 | 184.27 |
| 33 | Nougat | Octa-core 1.8 GHz Cortex-A53 | 5581 | 0.08 | 422.57 |
| 34 | Nougat | Octa-core 2.5 GHz Cortex-A53 | 5581 | 0.03 | 184.27 |
| 35 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 5581 | 0.21 | 1165.02 |
| 36 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 5581 | 0.20 | 1090.13 |
| 37 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 5581 | 0.24 | 1350.56 |
| 38 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 5581 | 0.24 | 1361.41 |
| 39 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 5581 | 0.22 | 1250.95 |
| 40 | Nougat | Octa-core 2.5 GHz Cortex-A53 | 5581 | 0.03 | 182.29 |
| 41 | Nougat | Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 5581 | 0.22 | 1232.76 |
| 42 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 5581 | 0.21 | 1155.08 |
| 43 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 5581 | 0.20 | 1143.62 |
| 44 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 5581 | 0.22 | 1248.62 |
| 45 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 5581 | 0.21 | 1163.00 |
| 46 | Nougat | Quad-core 1.4 GHz Cortex-A53 | 5581 | 0.21 | 1149.35 |
| 47 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 5581 | 0.22 | 1225.25 |
| 48 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 5581 | 0.20 | 1095.39 |
| 49 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 5581 | 0.20 | 1090.13 |
| 50 | Nougat | Octa-core 1.4 GHz Cortex-A53 | 5581 | 0.21 | 1155.08 |
| 51 | Nougat | Quad-core 1.4 GHz Cortex-A53 | 5581 | 0.21 | 1155.08 |
| 52 | Oreo | Quad-core 1.4 GHz Cortex-A53 | 5581 | 0.20 | 1096.34 |
| 53 | Oreo | Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53 | 5581 | 0.04 | 221.53 |
| 54 | Oreo | Octa-core 2x1.95 GHz Cortex-A72 & 6x1.45 GHz Cortex-A53 | 5581 | 0.04 | 218.21 |
| 55 | Oreo | Octa-core 1.8 GHz Cortex-A53 | 5581 | 0.08 | 422.57 |
| 56 | Oreo | Octa-core 1.8 GHz Cortex-A53 | 5581 | 0.07 | 416.86 |
| 57 | Oreo | Octa-core 1.8 GHz Kryo 260 | 5581 | 0.07 | 402.51 |
| 58 | Oreo | Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53 | 5581 | 0.14 | 771.85 |
| 59 | Oreo | Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260 | 5581 | 0.04 | 215.44 |
| 60 | Oreo | Octa-core 1.8 GHz Cortex-A53 | 5581 | 0.03 | 151.62 |
| 61 | Oreo | Quad-core 1.5 GHz Cortex-A53 | 5581 | 0.08 | 422.57 |
| 62 | Oreo | Octa-core 2x1.6 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53 | 5581 | 0.24 | 1337.01 |
| 63 | Oreo | Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53 | 5581 | 0.03 | 191.65 |
| 64 | Pie | Octa-core 1.6 GHz Cortex-A53 | 5581 | 0.09 | 498.56 |
| 65 | Pie | Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53 | 5581 | 0.24 | 1330.91 |
| 66 | Pie | Octa-core 2.0 GHz Cortex-A53 | 5581 | 0.04 | 227.49 |
| 67 | Pie | Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260 | 5581 | 0.04 | 205.90 |
| 68 | Pie | Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53 | 5581 | 0.04 | 210.05 |
| 69 | Pie | Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53 | 5581 | 0.04 | 201.45 |
| 70 | Pie | Octa-core 4x2.3 GHz Cortex-A73 & 4x1.7 GHz Cortex-A53 | 5581 | 0.03 | 181.82 |
| 71 | Pie | Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260 | 5581 | 0.04 | 205.43 |
| 72 | Pie | Octa-core 1.8 GHz Kryo 260 | 5581 | 0.38 | 2097.24 |
| 73 | Pie | Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55 | 5581 | 0.03 | 164.63 |
| 74 | Pie | Octa-core 1.8 GHz Kryo 260 | 5581 | 0.09 | 517.27 |
| 75 | Pie | Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53 | 5581 | 0.03 | 190.62 |
| 76 | Pie | Quad-core 1.2 GHz Cortex-A53 | 5581 | 0.28 | 1573.00 |
| 77 | Pie | Octa-core 1.8 GHz Cortex-A53 | 5581 | 0.08 | 464.82 |
| 78 | Pie | Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver | 5581 | 0.03 | 190.42 |
| 79 | Pie | Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver | 5581 | 0.03 | 172.95 |
| 80 | Pie | Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55 | 5581 | 0.02 | 131.76 |
| 81 | Pie | Octa-core 1.6 GHz Cortex-A53 | 5581 | 0.08 | 444.01 |
| 82 | Pie | Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53 | 5581 | 0.04 | 210.05 |
| 83 | Pie | Octa-core 2x2.0 GHz Cortex-A53 & 6x1.45 GHz Cortex A53 | 5581 | 0.04 | 229.35 |
| 84 | Pie | Octa-core 2.0 GHz Cortex-A53 | 5581 | 0.04 | 231.06 |
| 85 | Pie | Octa-core 2.0 GHz Cortex-A53 | 5581 | 0.04 | 232.98 |
| 86 | Pie | Quad-core 2x2.15 GHz Kryo & 2x1.6 GHz Kryo | 5581 | 0.04 | 202.74 |

Lampiran 2 Data Eksperimen

**TABEL DATA EKSPERIMEN**

| No | Android | Spesifikasi Kecepatan *CPU* | *RESTFul*(*bps*) | *SOAP* (*bps*) |
| --- | --- | --- | --- | --- |
| 1 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 8995.28 | 17290.94 |
| 2 | Lollipop | *Quad-core 1.0 GHz Cortex-A53* | 8338.30 | 16139.66 |
| 3 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 6834.14 | 13895.41 |
| 4 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 6737.99 | 13393.19 |
| 5 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 6872.74 | 13646.77 |
| 6 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 6751.21 | 13985.32 |
| 7 | Lollipop | *Quad-core 1.2 GHz Cortex-A53* | 7480.54 | 13841.95 |
| 8 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 5654.66 | 11218.13 |
| 9 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 5494.28 | 11736.38 |
| 10 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 5763.63 | 12411.63 |
| 11 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 5122.26 | 11056.07 |
| 12 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 5416.54 | 11385.36 |
| 13 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 5414.61 | 11815.41 |
| 14 | Lollipop | *Quad-core 1.3 GHz Cortex-A7* | 5463.82 | 11584.83 |
| 15 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3733.52 | 9018.81 |
| 16 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3865.00 | 8963.16 |
| 17 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3826.00 | 8894.08 |
| 18 | Lollipop | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3983.45 | 8638.20 |
| 19 | Lollipop | *Octa-core 2.0 GHz Cortex-A53* | 920.39 | 2253.12 |
| 20 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 6549.18 | 13754.62 |
| 21 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 6390.14 | 12849.52 |
| 22 | Marshmallow | *Quad-core 1.2 GHz Cortex-A53* | 6257.23 | 13324.85 |
| 23 | Marshmallow | *Octa-core 1.4 GHz Cortex-A53* | 4510.57 | 9812.75 |
| 24 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3675.33 | 7631.69 |
| 25 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3583.62 | 7810.68 |
| 26 | Marshmallow | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 3309.88 | 7250.87 |
| 27 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 1107.52 | 2430.62 |
| 28 | Marshmallow | *Octa-core 2.0 GHz Cortex-A53* | 1117.00 | 1962.54 |
| 29 | Marshmallow | *Quad-core 1.4 GHz Cortex-A53* | 4331.97 | 9894.15 |
| 30 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 4385.37 | 10159.93 |
| 31 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 4389.05 | 9771.33 |
| 32 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 4697.40 | 10239.03 |
| 33 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 4487.12 | 10140.79 |
| 34 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 4581.10 | 9541.51 |
| 35 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 4255.20 | 9458.38 |
| 36 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 4392.72 | 9422.10 |
| 37 | Nougat | *Octa-core 1.4 GHz Cortex-A53* | 4372.49 | 10379.51 |
| 38 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 4575.52 | 10517.50 |
| 39 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 4531.72 | 9813.03 |
| 40 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 4434.50 | 9791.22 |
| 41 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 4609.22 | 10026.60 |
| 42 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 4518.75 | 9645.68 |
| 43 | Nougat | *Octa-core 4x1.4 GHz Cortex-A53 & 4x1.0 GHz Cortex-A53* | 4558.10 | 9793.16 |
| 44 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 2304.66 | 4582.75 |
| 45 | Nougat | *Octa-core 1.8 GHz Cortex-A53* | 2159.03 | 4419.25 |
| 46 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 559.80 | 1355.64 |
| 47 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 540.05 | 1299.89 |
| 48 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 513.09 | 1238.48 |
| 49 | Nougat | *Octa-core 2.5 GHz Cortex-A53* | 524.14 | 1161.19 |
| 50 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 4386.43 | 9949.34 |
| 51 | Nougat | *Quad-core 1.4 GHz Cortex-A53* | 4429.69 | 9540.96 |
| 52 | Oreo | *Octa-core 4x1.5 GHz Cortex-A53 & 4x1.2 GHz Cortex-A53* | 2361.00 | 5168.38 |
| 53 | Oreo | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 4310.99 | 9048.31 |
| 54 | Oreo | *Octa-core 1.8 GHz Kryo 260* | 2457.86 | 5329.40 |
| 55 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 2394.51 | 5239.57 |
| 56 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 2408.67 | 5184.55 |
| 57 | Oreo | *Octa-core 1.8 GHz Cortex-A53* | 903.19 | 3620.65 |
| 58 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 1628.03 | 3973.59 |
| 59 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 3604.26 | 7975.93 |
| 60 | Oreo | *Octa-core 2x1.95 GHz Cortex-A53 & 6x1.45 GHz Cortex A53* | 1982.90 | 4609.42 |
| 61 | Oreo | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 730.18 | 1770.07 |
| 62 | Oreo | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 672.01 | 1644.38 |
| 63 | Oreo | *Quad-core 1.4 GHz Cortex-A53* | 4397.53 | 9600.05 |
| 64 | Pie | *Quad-core 1.2 GHz Cortex-A53* | 7086.66 | 14226.39 |
| 65 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3693.17 | 8034.87 |
| 66 | Pie | *Octa-core 1.6 GHz Cortex-A53* | 3812.15 | 7844.54 |
| 67 | Pie | *Octa-core 2x1.6 GHz Cortex-A73 & 6x1.35 GHz Cortex-A53* | 4635.27 | 8628.00 |
| 68 | Pie | *Octa-core 1.8 GHz Kryo 260* | 4058.48 | 6991.74 |
| 69 | Pie | *Octa-core 1.8 GHz Kryo 260* | 2285.60 | 5561.39 |
| 70 | Pie | *Octa-core 1.8 GHz Cortex-A53* | 3510.55 | 7942.62 |
| 71 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 801.17 | 1818.02 |
| 72 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 785.43 | 1833.07 |
| 73 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 793.94 | 1852.27 |
| 74 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 774.50 | 1777.80 |
| 75 | Pie | *Octa-core 2.0 GHz Cortex-A53* | 765.77 | 1726.93 |
| 76 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 698.46 | 1656.68 |
| 77 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 688.49 | 1666.45 |
| 78 | Pie | *Octa-core 2x2.2 GHz Cortex-A73 & 6x1.6 GHz Cortex-A53* | 698.47 | 1649.92 |
| 79 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 722.69 | 1696.27 |
| 80 | Pie | *Octa-core 4x2.2 GHz Kryo 260 & 4x1.8 GHz Kryo 260* | 713.72 | 1733.73 |
| 81 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 624.37 | 1506.90 |
| 82 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 600.93 | 1468.97 |
| 83 | Pie | *Octa-core 2x2.3 GHz Kryo 360 Gold & 6x1.7 GHz Kryo 360 Silver* | 417.17 | 1068.18 |
| 84 | Pie | *Octa-core 4x2.3 GHz Cortex-A53 & 4x1.8 GHz Cortex-A53* | 579.53 | 1429.19 |
| 85 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 729.49 | 1646.74 |
| 86 | Pie | *Octa-core 2x2.73 GHz Mongoose M4 & 2x2.31 GHz Cortex-A75 & 4x1.95 GHz Cortex-A55* | 471.76 | 1215.59 |