# Introduction

Once an experiment has been run, a text file is produced, containing test result data. Some of this data needs to be extracted and saved into an excel spread sheet. Some of the data needs to be manipulated by some simple mathematics, (addition, multiplication, division and add), the results of which are then stored in new columns in the spread sheet.

The number of lines in the text file is a result of the number of times the experiment is repeated.

Input variables are also defined in this document.

A sample text file to be processed is added at the end in appendix A.

# Input variables

The following variables are input to the programme at run time. They should be added into the spread sheet in a section top LHS labelled as input variables.

p

q

Experiment run time

Calculated PLP

Calculated delay

Calculated R-Factor

## Spread sheet output after parsing

After every experimental run the following block of data is produced; The highlighted data is data of interest. If for example there are 32 repeats then the data will be repeated 32 times each block or repeat may contain different data. The numbers in parentheses after the dots is where the data should appear in the spread sheet columns. The text is the column heading.

..................................................................... Snip ....................................................

<RESUME>

<OK>

1662

<SYNC>

<OK>

1662

<SYNC>

1662

P\_RECEIVESYNC IN\_SYNC

1662........................................................................................................(10) (Number of on states)

PR\_TOTAL 0 0 4853079369 3235387......................................................(4)(Total packets received)

PR\_NOTPLD 0 0 369 1

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 2420841000 1613894

PR\_TPLDERRORS [1] 0 6630 0 0

PR\_TPLDLATENCY [1] 43296 76916889 398745432

PR\_TPLDTRAFFIC [3] 0 0 2432238000 1621492

PR\_TPLDERRORS [3] 0 6642 0 0

PR\_TPLDLATENCY [3] 50160 80476219 398745096................................(7) (Min Delay) ... (8) Average Delay... (9) Max delay

<SYNC>

1662

PT\_TOTAL 0 0 2410879500 1607253

1662

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 2410879500 1607253.................................................(1)(Port 0 packets sent)

PT\_STREAM [1] 0 0 0 0

<SYNC>

1662

PT\_TOTAL 0 0 2410498500 1606999

1662

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 2410498500 1606999...............................................(2)(Port 1 packets sent)

PT\_STREAM [1] 0 0 0 0

<SYNC>

1662

<OK>

............................................................................... End Snip ......................................................

## Other columns

Column 3 (Total sent packets)

Result of (Column 1) + (Column 2)

Column 5 (Packet loss)

Result of (Column 3 ) – (Column 4)

Column 6 (Measured PLP)

Result of (Column 5) / (Column 3)

# Appendix A: Typical input.

88987

<OK>

<SYNC>

<OK>

<SYNC>

88987

<OK>

<SYNC>

<OK>

<SYNC>

88987

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88987

88987

<OK>

<SYNC>

<OK>

<SYNC>

88987

88987

<RESUME>

<OK>

88987

<SYNC>

<OK>

88987

<SYNC>

88987

P\_RECEIVESYNC IN\_SYNC

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PR\_TOTAL 0 0 261291997204 174194711

PR\_NOTPLD 0 0 22204 61

PR\_EXTRA 0 0 1 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 130648873500 87099249

PR\_TPLDERRORS [1] 0 9937 0 0

PR\_TPLDLATENCY [1] 43272 53486339 398750832

PR\_TPLDTRAFFIC [3] 0 0 130643101500 87095401

PR\_TPLDERRORS [3] 0 9951 0 0

PR\_TPLDLATENCY [3] 50136 55465314 398749080

<SYNC>

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PT\_TOTAL 0 0 130663779000 87109186

88987

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130663779000 87109186

PT\_STREAM [1] 0 0 0 0

<SYNC>

88987

PT\_TOTAL 0 0 130658028000 87105352

88987

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130658028000 87105352

PT\_STREAM [1] 0 0 0 0

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88987

88987

<OK>

<SYNC>

87703

<OK>

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<OK>

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87703

<OK>

<SYNC>

<OK>

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<OK>

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<OK>

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87703

<RESUME>

<OK>

87703

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<OK>

87703

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87703

P\_RECEIVESYNC IN\_SYNC

87703

PR\_TOTAL 0 0 257550878640 171700631

PR\_NOTPLD 0 0 22140 60

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 128780215500 85853477

PR\_TPLDERRORS [1] 0 18751 0 0

PR\_TPLDLATENCY [1] 43272 52149741 398746704

PR\_TPLDTRAFFIC [3] 0 0 128770641000 85847094

PR\_TPLDERRORS [3] 0 18763 0 0

PR\_TPLDLATENCY [3] 50784 54130378 398750712

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87703

PT\_TOTAL 0 0 128808342000 85872228

87703

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 128808342000 85872228

PT\_STREAM [1] 0 0 0 0

<SYNC>

87703

PT\_TOTAL 0 0 128798785500 85865857

87703

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 128798785500 85865857

PT\_STREAM [1] 0 0 0 0

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<OK>

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89521

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89521

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<SYNC>

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89521

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89521

P\_RECEIVESYNC IN\_SYNC

89521

PR\_TOTAL 0 0 262495106640 174996783

PR\_NOTPLD 0 0 22140 60

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 131252485500 87501657

PR\_TPLDERRORS [1] 0 22368 0 0

PR\_TPLDLATENCY [1] 43272 54620934 398750328

PR\_TPLDTRAFFIC [3] 0 0 131242599000 87495066

PR\_TPLDERRORS [3] 0 22411 0 0

PR\_TPLDLATENCY [3] 53976 56608656 398753232

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PT\_TOTAL 0 0 131286037500 87524025

89521

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 131286037500 87524025

PT\_STREAM [1] 0 0 0 0

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PT\_TOTAL 0 0 131276215500 87517477

89521

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 131276215500 87517477

PT\_STREAM [1] 0 0 0 0

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89521

<OK>

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89415

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89415

P\_RECEIVESYNC IN\_SYNC

89415

PR\_TOTAL 0 0 262450327140 174966930

PR\_NOTPLD 0 0 22140 60

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 131229627000 87486418

PR\_TPLDERRORS [1] 0 20350 0 0

PR\_TPLDLATENCY [1] 43248 53438877 398748840

PR\_TPLDTRAFFIC [3] 0 0 131220678000 87480452

PR\_TPLDERRORS [3] 0 20394 0 0

PR\_TPLDLATENCY [3] 50136 55419204 398750232

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PT\_TOTAL 0 0 131260152000 87506768

89415

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 131260152000 87506768

PT\_STREAM [1] 0 0 0 0

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89415

PT\_TOTAL 0 0 131251269000 87500846

89415

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 131251269000 87500846

PT\_STREAM [1] 0 0 0 0

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<RESUME>

89429

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89429

P\_RECEIVESYNC IN\_SYNC

89429

PR\_TOTAL 0 0 262206612073 174804455

PR\_NOTPLD 0 0 22573 62

PR\_EXTRA 0 0 1 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 131107764000 87405176

PR\_TPLDERRORS [1] 0 8565 0 0

PR\_TPLDLATENCY [1] 43272 54672621 398750712

PR\_TPLDTRAFFIC [3] 0 0 131098825500 87399217

PR\_TPLDERRORS [3] 0 8545 0 0

PR\_TPLDLATENCY [3] 48216 56650241 398750088

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PT\_TOTAL 0 0 131120611500 87413741

89429

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

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PT\_STREAM [1] 0 0 0 0

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PT\_TOTAL 0 0 131111643000 87407762

89429

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 131111643000 87407762

PT\_STREAM [1] 0 0 0 0

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88832

P\_RECEIVESYNC IN\_SYNC

88832

PR\_TOTAL 0 0 260658313140 173772254

PR\_NOTPLD 0 0 22140 60

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 130333702500 86889135

PR\_TPLDERRORS [1] 0 20343 0 0

PR\_TPLDLATENCY [1] 43272 54416357 398747424

PR\_TPLDTRAFFIC [3] 0 0 130324588500 86883059

PR\_TPLDERRORS [3] 0 20304 0 0

PR\_TPLDLATENCY [3] 47592 56390986 398750088

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PT\_TOTAL 0 0 130364217000 86909478

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PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130364217000 86909478

PT\_STREAM [1] 0 0 0 0

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PT\_TOTAL 0 0 130355044500 86903363

88832

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130355044500 86903363

PT\_STREAM [1] 0 0 0 0

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88589

P\_RECEIVESYNC IN\_SYNC

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PR\_TOTAL 0 0 260001344640 173334275

PR\_NOTPLD 0 0 22140 60

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 130002492000 86668328

PR\_TPLDERRORS [1] 0 16315 0 0

PR\_TPLDLATENCY [1] 43272 52147818 398750568

PR\_TPLDTRAFFIC [3] 0 0 129998830500 86665887

PR\_TPLDERRORS [3] 0 16229 0 0

PR\_TPLDLATENCY [3] 49488 54126129 398750904

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PT\_TOTAL 0 0 130026964500 86684643

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PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130026964500 86684643

PT\_STREAM [1] 0 0 0 0

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88589

PT\_TOTAL 0 0 130023174000 86682116

88589

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130023174000 86682116

PT\_STREAM [1] 0 0 0 0

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P\_RECEIVESYNC IN\_SYNC

89024

PR\_TOTAL 0 0 261240769140 174160558

PR\_NOTPLD 0 0 22140 60

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 130623336000 87082224

PR\_TPLDERRORS [1] 0 18568 0 0

PR\_TPLDLATENCY [1] 43272 55042615 398754912

PR\_TPLDTRAFFIC [3] 0 0 130617411000 87078274

PR\_TPLDERRORS [3] 0 18619 0 0

PR\_TPLDLATENCY [3] 43752 57009569 398750040

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PT\_TOTAL 0 0 130651188000 87100792

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PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130651188000 87100792

PT\_STREAM [1] 0 0 0 0

<SYNC>

89024

PT\_TOTAL 0 0 130645339500 87096893

89024

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130645339500 87096893

PT\_STREAM [1] 0 0 0 0

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<OK>

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88643

<RESUME>

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88643

P\_RECEIVESYNC IN\_SYNC

88643

PR\_TOTAL 0 0 260208607204 173472451

PR\_NOTPLD 0 0 22204 61

PR\_EXTRA 0 0 1 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 130108063500 86738709

PR\_TPLDERRORS [1] 0 5752 0 0

PR\_TPLDLATENCY [1] 43248 53113486 398748312

PR\_TPLDTRAFFIC [3] 0 0 130100521500 86733681

PR\_TPLDERRORS [3] 0 5749 0 0

PR\_TPLDLATENCY [3] 48864 55092816 398749992

<SYNC>

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PT\_TOTAL 0 0 130116691500 86744461

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PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130116691500 86744461

PT\_STREAM [1] 0 0 0 0

<SYNC>

88643

PT\_TOTAL 0 0 130109145000 86739430

88643

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130109145000 86739430

PT\_STREAM [1] 0 0 0 0

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<RESUME>

88941

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88941

P\_RECEIVESYNC IN\_SYNC

88941

PR\_TOTAL 0 0 260907793140 173938574

PR\_NOTPLD 0 0 22140 60

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 130459101000 86972734

PR\_TPLDERRORS [1] 0 35778 0 0

PR\_TPLDLATENCY [1] 43272 54622815 398749560

PR\_TPLDTRAFFIC [3] 0 0 130448670000 86965780

PR\_TPLDERRORS [3] 0 35942 0 0

PR\_TPLDLATENCY [3] 53976 56610061 398753496

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PT\_TOTAL 0 0 130512768000 87008512

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PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130512768000 87008512

PT\_STREAM [1] 0 0 0 0

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88941

PT\_TOTAL 0 0 130502583000 87001722

88941

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130502583000 87001722

PT\_STREAM [1] 0 0 0 0

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89236

P\_RECEIVESYNC IN\_SYNC

89236

PR\_TOTAL 0 0 261695566509 174463757

PR\_NOTPLD 0 0 22509 61

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 130852516500 87235011

PR\_TPLDERRORS [1] 0 28413 0 0

PR\_TPLDLATENCY [1] 43272 53532123 398754120

PR\_TPLDTRAFFIC [3] 0 0 130843027500 87228685

PR\_TPLDERRORS [3] 0 28328 0 0

PR\_TPLDLATENCY [3] 44376 55502828 398751096

<SYNC>

89236

PT\_TOTAL 0 0 130895136000 87263424

89236

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130895136000 87263424

PT\_STREAM [1] 0 0 0 0

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89236

PT\_TOTAL 0 0 130885519500 87257013

89236

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130885519500 87257013

PT\_STREAM [1] 0 0 0 0

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89236

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89375

P\_RECEIVESYNC IN\_SYNC

89375

PR\_TOTAL 0 0 262119309009 174746252

PR\_NOTPLD 0 0 22509 61

PR\_EXTRA 0 0 0 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 131062879500 87375253

PR\_TPLDERRORS [1] 0 13182 0 0

PR\_TPLDLATENCY [1] 43272 54451922 398753424

PR\_TPLDTRAFFIC [3] 0 0 131056407000 87370938

PR\_TPLDERRORS [3] 0 13179 0 0

PR\_TPLDLATENCY [3] 45024 56422954 398748096

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89375

PT\_TOTAL 0 0 131082652500 87388435

89375

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 131082652500 87388435

PT\_STREAM [1] 0 0 0 0

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89375

PT\_TOTAL 0 0 131076175500 87384117

89375

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 131076175500 87384117

PT\_STREAM [1] 0 0 0 0

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89375

<OK>

89375

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89375

<OK>

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88825

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<OK>

<SYNC>

88825

88825

<RESUME>

<OK>

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88825

<OK>

<SYNC>

88825

88825

P\_RECEIVESYNC IN\_SYNC

PR\_TOTAL 0 0 260593192204 173728841

PR\_NOTPLD 0 0 22204 61

PR\_EXTRA 0 0 1 0 0 0 0 0

PR\_TPLDS 1 3

PR\_TPLDTRAFFIC [1] 0 0 130300840500 86867227

PR\_TPLDERRORS [1] 0 13253 0 0

PR\_TPLDLATENCY [1] 43272 53725818 398751000

PR\_TPLDTRAFFIC [3] 0 0 130292329500 86861553

PR\_TPLDERRORS [3] 0 13254 0 0

PR\_TPLDLATENCY [3] 46296 55700216 398749224

<SYNC>

88825

PT\_TOTAL 0 0 130320720000 86880480

88825

PT\_NOTPLD 0 0 0 0

PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130320720000 86880480

PT\_STREAM [1] 0 0 0 0

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88825

88825

PT\_TOTAL 0 0 130312210500 86874807

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PT\_EXTRA 0 0 0 0 0 0 0 0 0 0

PT\_STREAM [0] 0 0 130312210500 86874807

PT\_STREAM [1] 0 0 0 0

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88825

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P\_RECEIVESYNC IN\_SYNC

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P\_RECEIVESYNC IN\_SYNC

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P\_RECEIVESYNC IN\_SYNC

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PR\_TPLDTRAFFIC [3] 0 0 131048953500 87365969

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P\_RECEIVESYNC IN\_SYNC

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