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Policers

• TSW2CM:

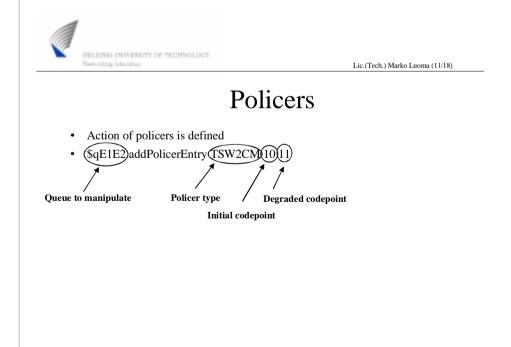
- Time Sliding Window Meter with Two Color Marker
- Queue addPolicyEntry [Destination id] [Source id] TSW2CM Initial Codepoint CIR
- Packets are marked to lower precedence probabilistically when CIR is exceeded



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Policers

- Token Bucket:
 - Queue addPolicyEntry [Destination id] [Source id] tokenBucket Initial Codepoint CIR CBS
 - Packets are marked to lower precedence when bucket is empty
 - CIR = Token rate * Token size
 - CBS = Size of the token bucket



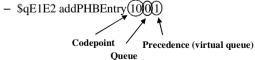


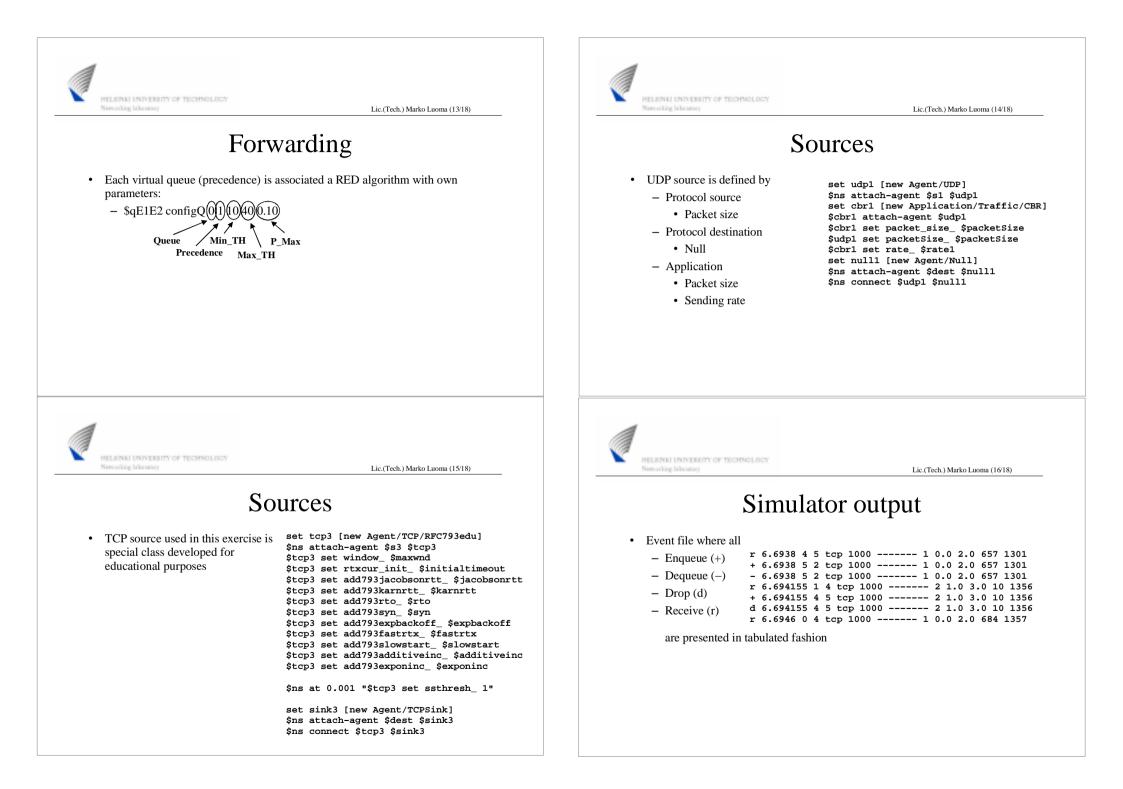
HELEINEI UNIVERSITY OF TECHNOLOGY Networking laboratory

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Forwarding

- Each packet with assigned codepoint need some forwarding action to be associated
- This is done by selecting queue and precedence based on the codepoint







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Simulator output

- Two files are generated:
 - Out.rec: Contains all receive events in simulation
 - Can be prosessed with perl script "Analysis.pl" or some other means

Connection pair	Bytes	Transfer time	Transfer Rate
0	1232000	50.169312	196454.757043509
1	1202000	50.169312	191670.956141476
2	1262040	50.0832	201590.952654782
3	1243040	50.02704	198778.90037068
4	1253040	50.06688	200218.587617203
5	1276040	50.348192	202754.450447794
6	1262040	49.98256	201996.856503548
7	1270040	50.252224	202186.474373751
8	1261040	50.12624	201258.263137231
9	1212040	50.363552	192526.531885599



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Simulator output

- Two files are generated:
 - Out.wnd: Contains window values of TCP connections in sampling times
 - Can be plotted with gnuplot script "plot.p"

