Internet Engineering Task Force | S. Floyd
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# A Slowly-Responding Variant for Datagram Congestion Control Protocol (DCCP) Congestion Control ID 2.

**Abstract**

This document adds a Slowly-Responding variant to Congestion Control Identifier 2 (CCID 2) [RFC4341], TCP-like Congestion Control, in the Datagram Congestion Control Protocol (DCCP) [RFC4340]. Unlike standard CCID 2, the Slowly-Responding variant of CCID 2 uses an Additive Increase step of 1/5 MSS per round-trip time, in the absence of a loss event, and a Multiplicative Decrease to 7/8-ths of the congestion window in response a loss or ECN-marking event [FMP00]. The Slowly-Responding variant of CCID 2 should be used by senders who don't need the fast response times of CCID 2, but would prefer the window-based and AIMD-based congestion control mechanisms of CCID 2 to the newer rate-based congestion control mechanisms of CCID 3 [RFC4342].

## 1. Introduction

TBD

## Normative References

[RFC4340] Kohler, E., Handley, M., and S. Floyd, "Datagram Congestion Control Protocol (DCCP)", RFC 4340, March 2006.

[RFC4341] Floyd, S., and E. Kohler, Profile for Datagram Congestion Control Protocol (DCCP) Congestion Control ID 2: TCP-like Congestion Control, RFC 4341, March 2006.

[RFC4342] Floyd, S., E. Kohler, and J. Padhye, Profile for Datagram Congestion Control Protocol (DCCP) Congestion Control ID 3: TCP-Friendly Rate Control (TFRC), RFC 4342, March 2006.

## Informative References

[FMP00] Floyd, S., Handley, M., and Padhye, J., A Comparison of Equation-Based and AIMD Congestion Control, May 2000. URL "http://www.icir.org/floyd/papers.html".

## Authors' Addresses

Sally Floyd
ICSI Center for Internet Research
1947 Center Street, Suite 600
Berkeley, CA 94704
USA

EMail: floyd@icir.org