The Fate of RFC3465

Martin Duke
<table>
<thead>
<tr>
<th>RFC 3465 (Experimental)</th>
</tr>
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<tbody>
<tr>
<td><strong>Congestion Avoidance</strong></td>
</tr>
<tr>
<td>( cwnd += \min (N, \text{SMSS}) )</td>
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**RFC 3465 (Experimental)**

**Congestion Avoidance**
\[ \text{cwnd} += \min(N, \text{SMSS}) \]

**Slow Start**
\[ \text{cwnd} = \text{cwnd} + \min(N, L \times \text{SMSS}) \quad [L \leq 2] \]

**RECOMMENDED in RFC 5681 (PS)**

**L = 1 in RFC 5681 (PS)**

**L > 2: here be dragons**
### RFC 3465 (Experimental)

**Congestion Avoidance**
\[
cwnd += \min(N, \text{SMSS})
\]

**RECOMMENDED in RFC 5681 (PS)**

**Slow Start**
\[
cwnd = cwnd + \min(N, L \times \text{SMSS}) \quad [L \leq 2]
\]

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<th>(L)</th>
<th>with Hystart++</th>
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<tr>
<td>1</td>
<td>hystart++ (PS)</td>
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<tr>
<td>2</td>
<td>hystart++ (PS)</td>
<td>RFC 3465 (EXP)</td>
</tr>
<tr>
<td>&gt;2</td>
<td>hystart++ (PS)</td>
<td>??????</td>
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Options

- Do Nothing
  - perpetuates myths about RFC 3465
- Document action to move RFC 3465 to Historic
  - Best practice for slow start now includes Hystart++
  - Non-hystart++ L=2 implementations now unspecified
- New PS RFC to standardize last bit of RFC 3465
  - Does it matter that many implementations are in this state? (with large L!)