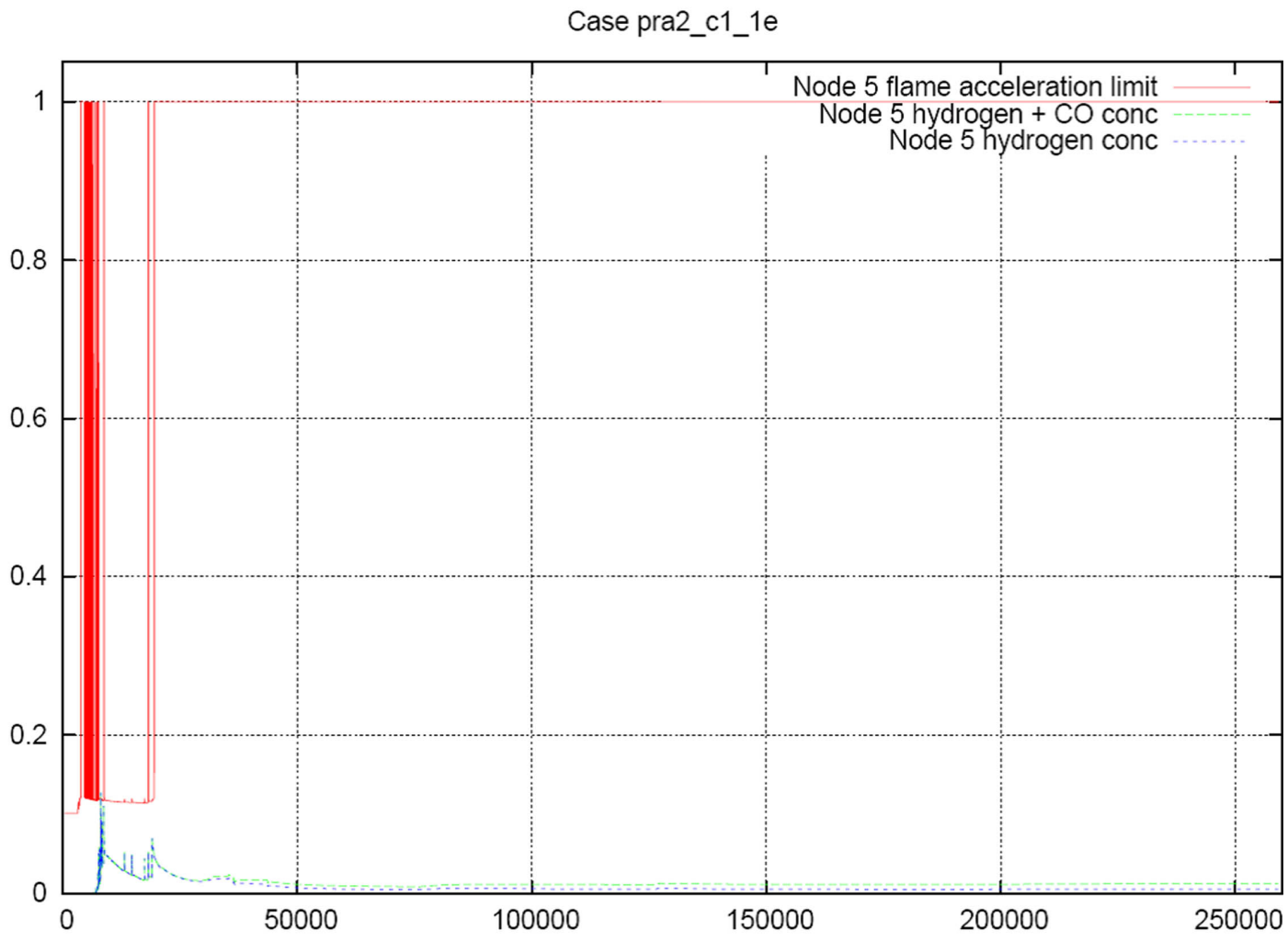

Figure A 149: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_1e, containment node 5)

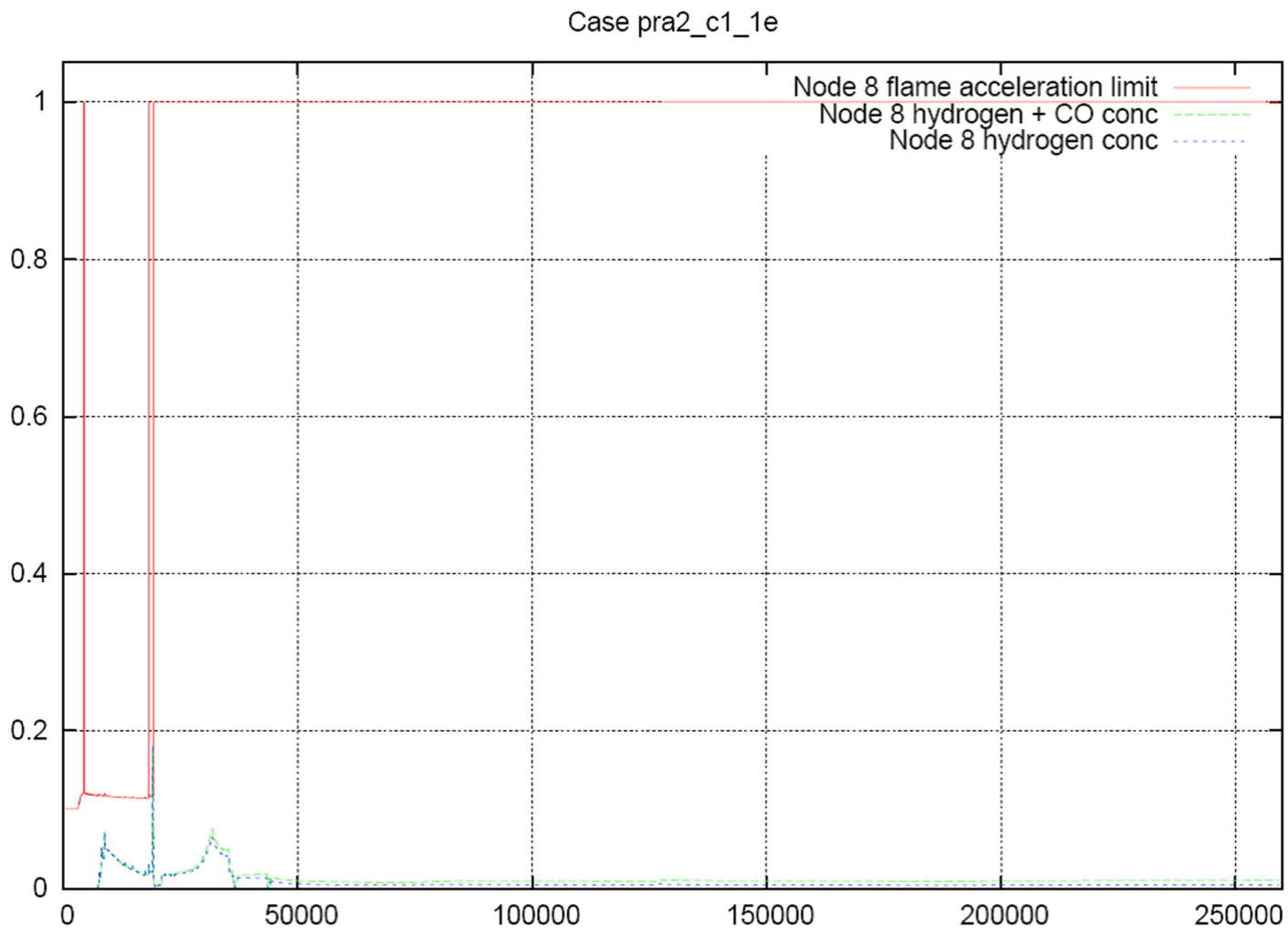

Figure A 150: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_1e, containment node 8)

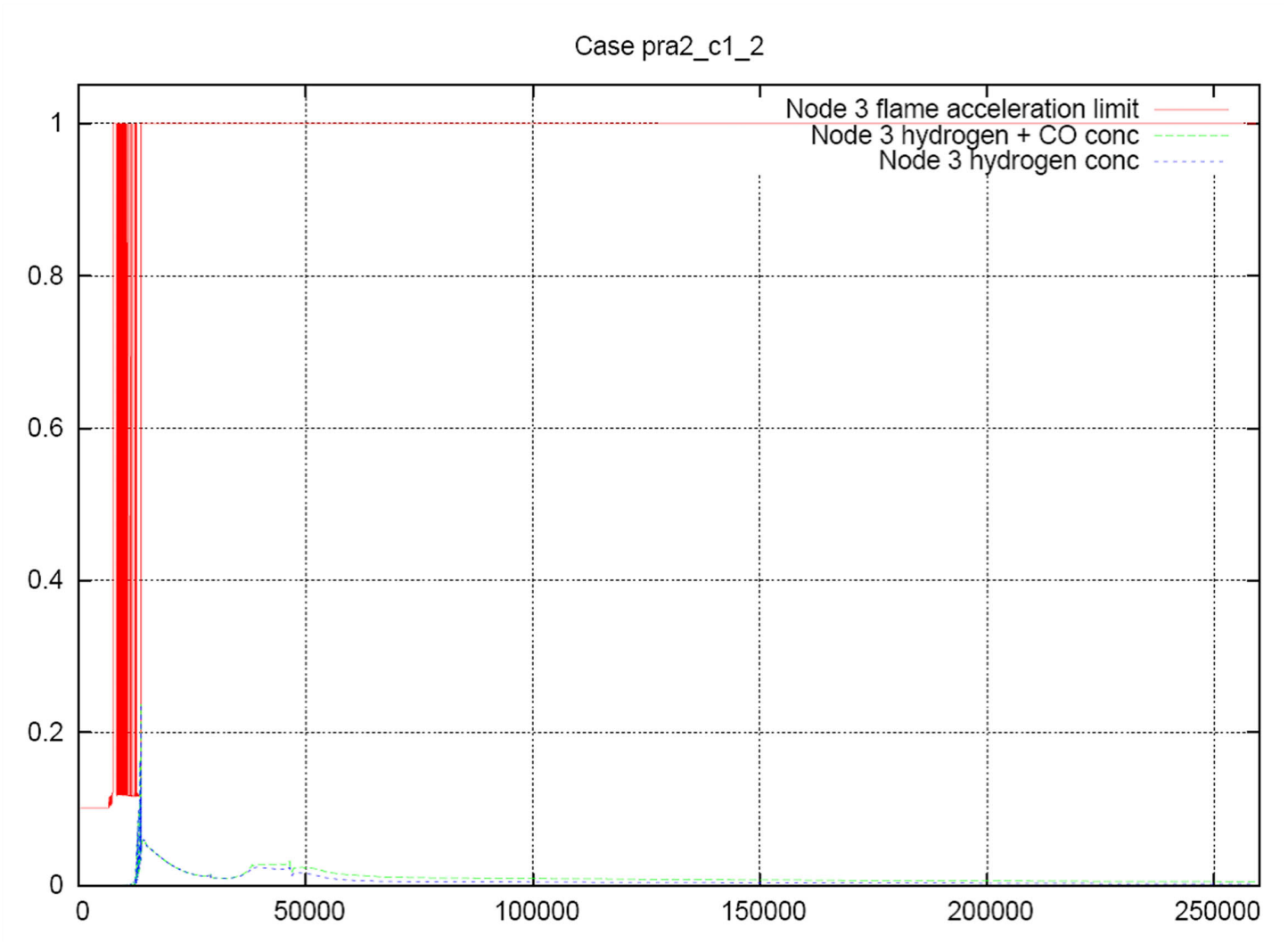

Figure A 151: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_2, containment node 3)

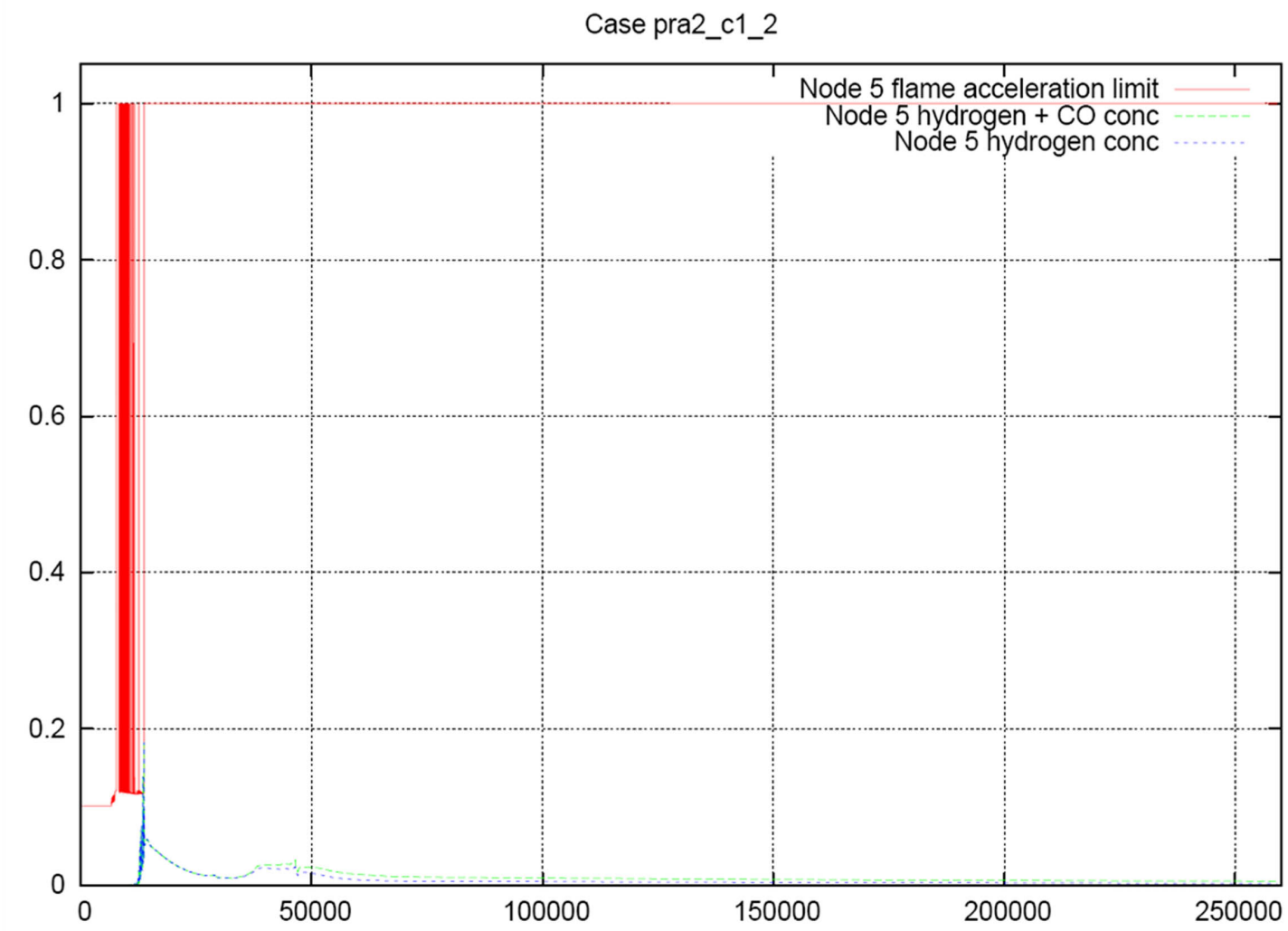

Figure A 152: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_2, containment node 5)

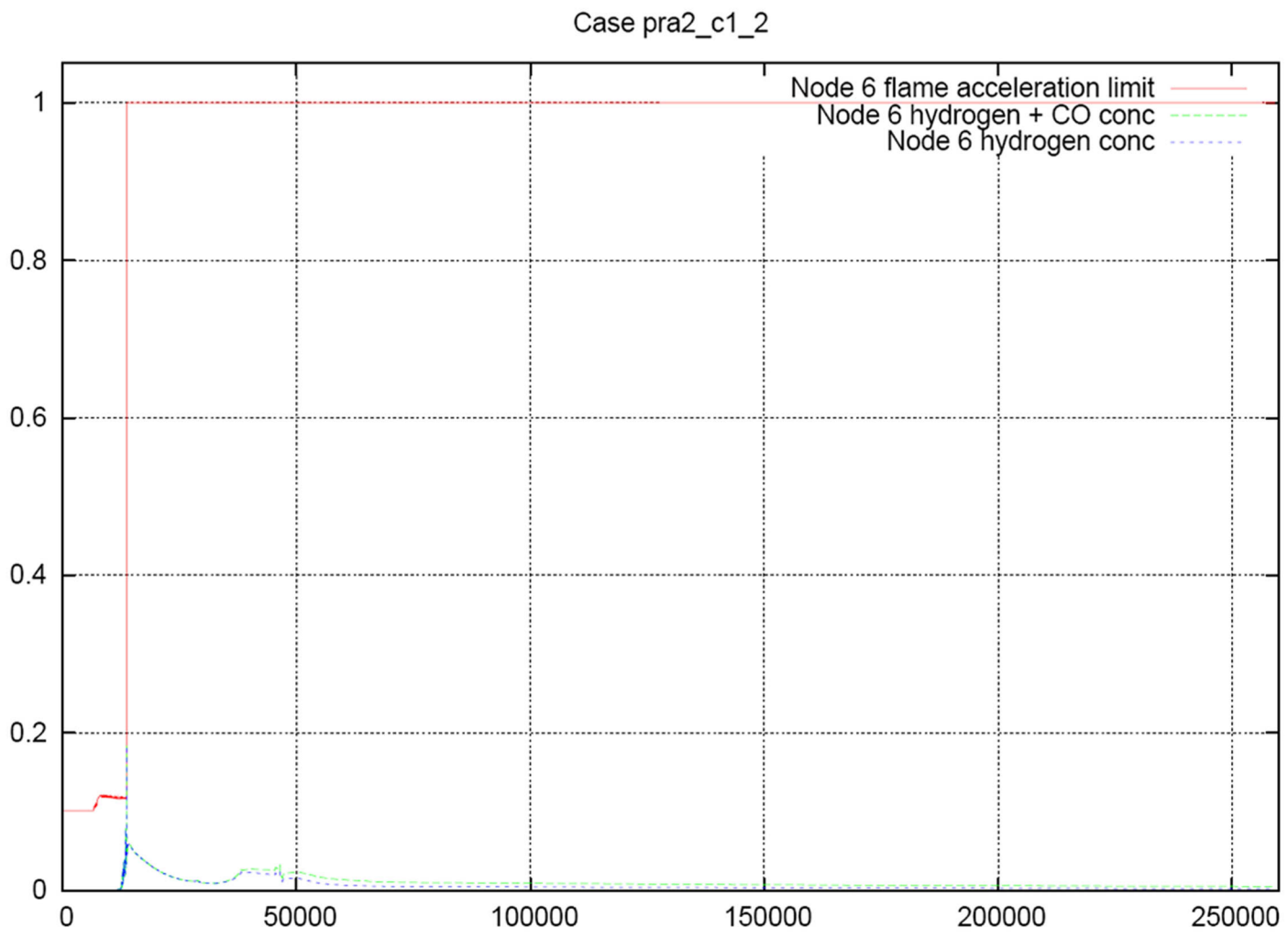

Figure A 153: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_2, containment node 6)

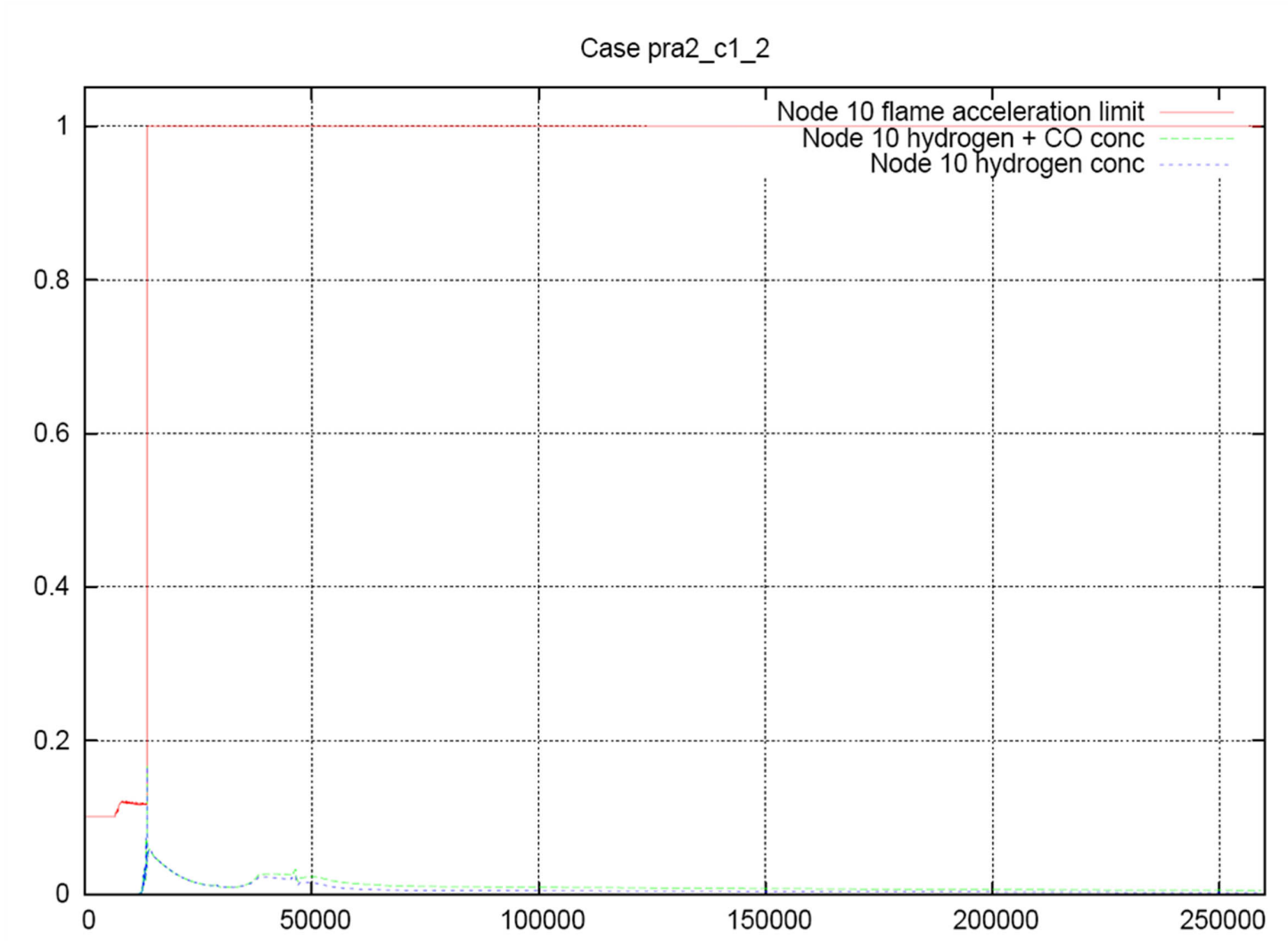

Figure A 154: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_2, containment node 10)

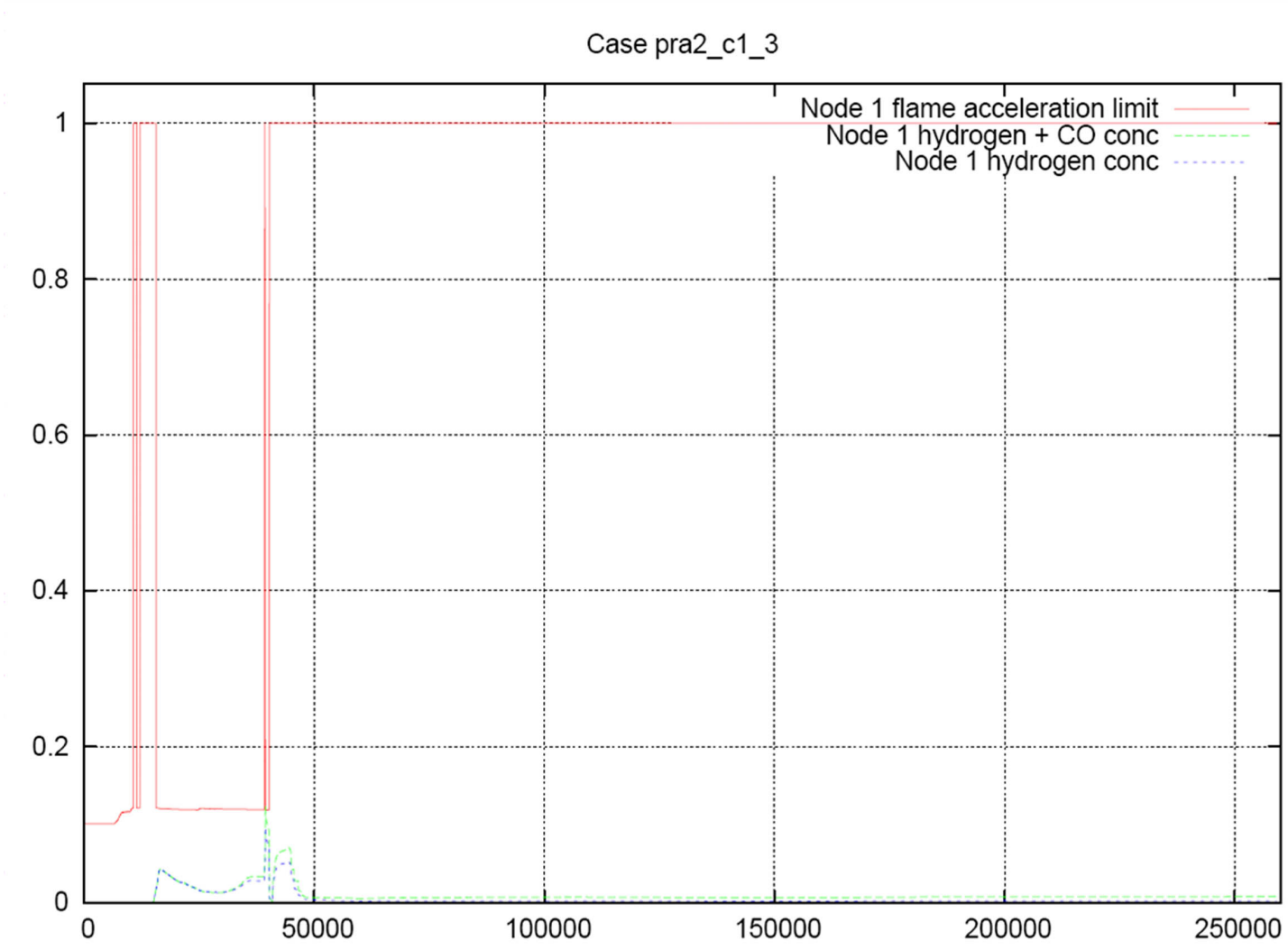

Figure A 155: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_3, containment node 1)

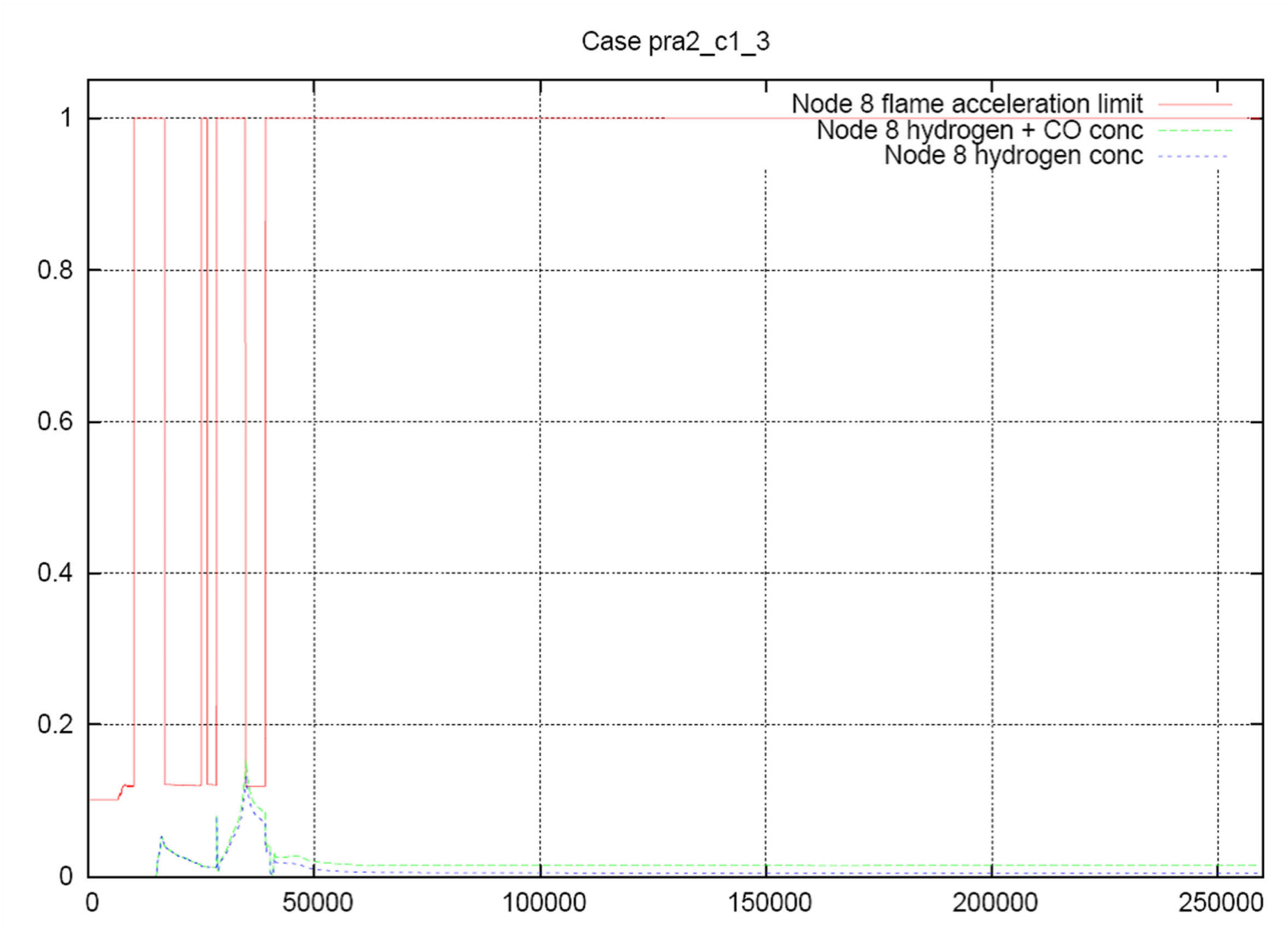

Figure A 156: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_3, containment node 8)

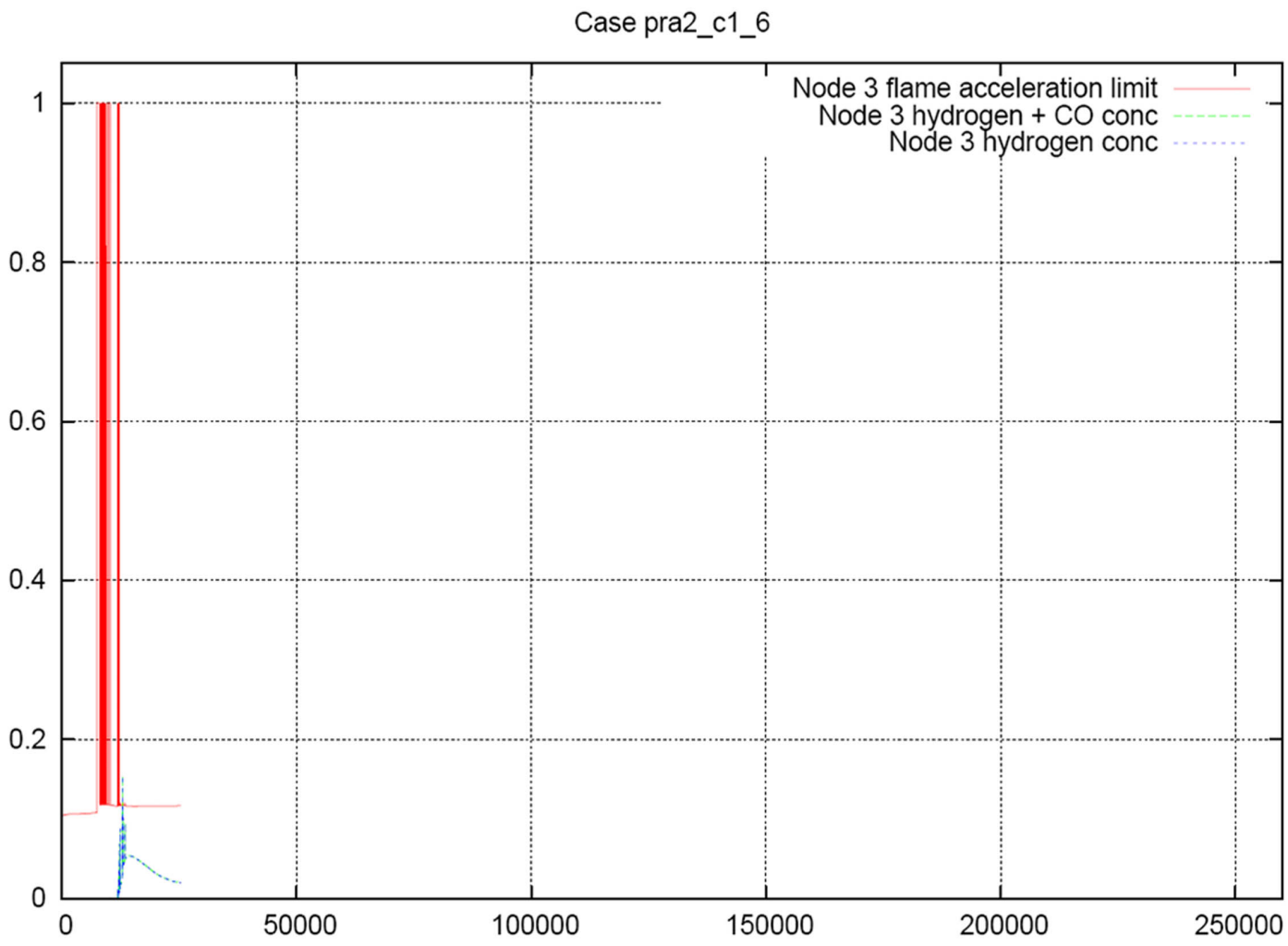

Figure A 157: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_6, containment node 3)

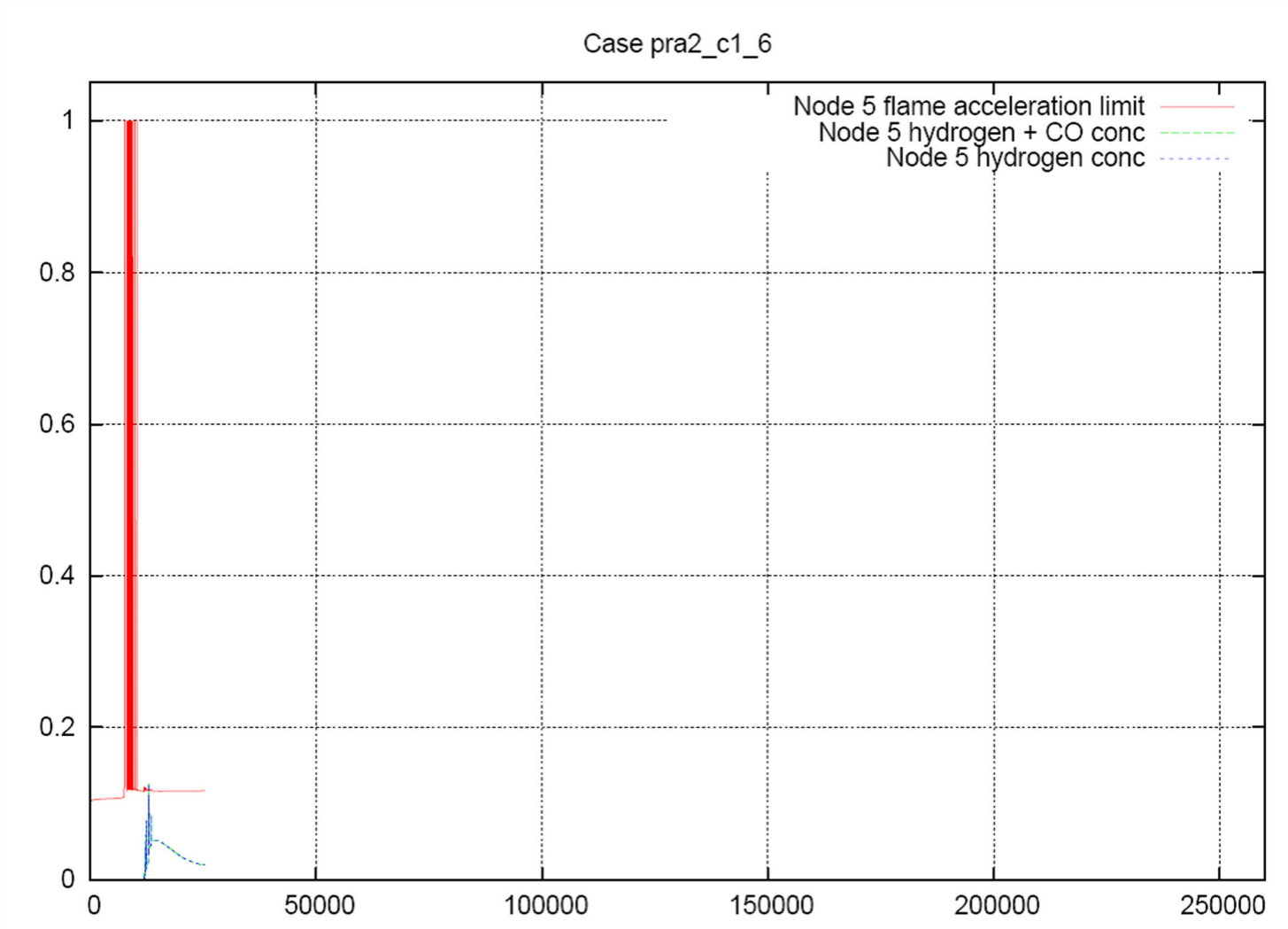

Figure A 158: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_6, containment node 5)

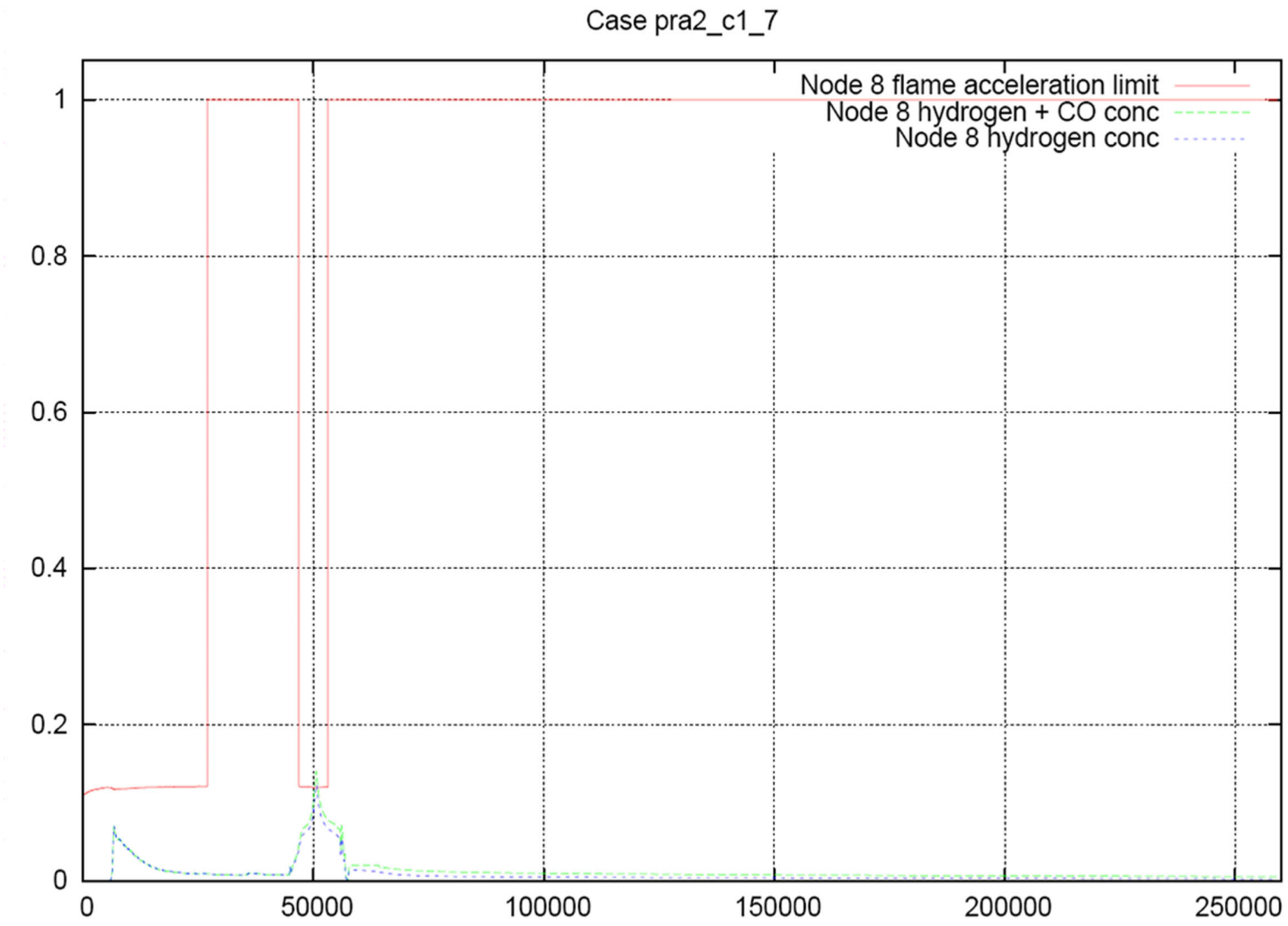

Figure A 159: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_7, containment node 8)

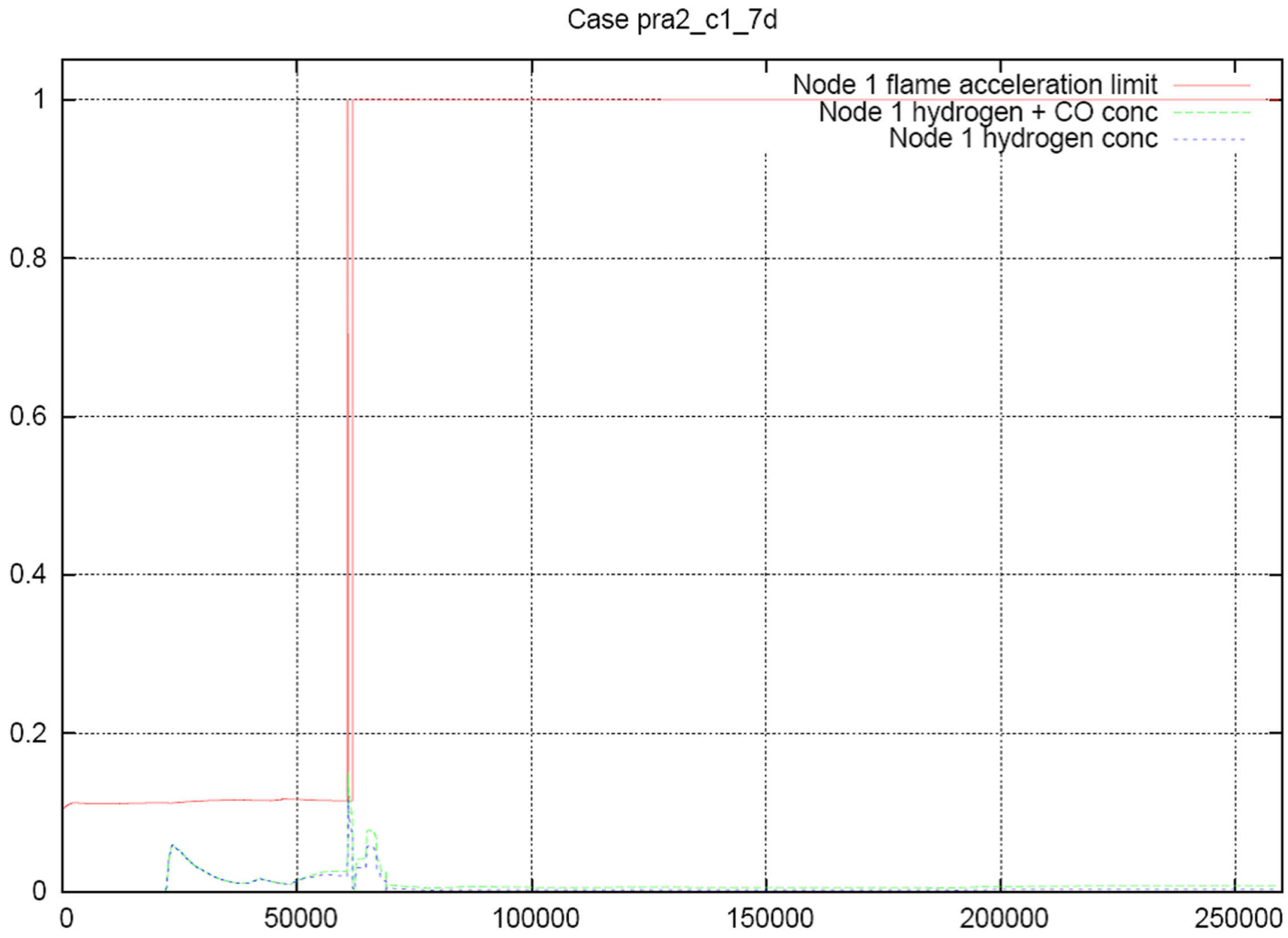

Figure A 160: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_7d, containment node 1)

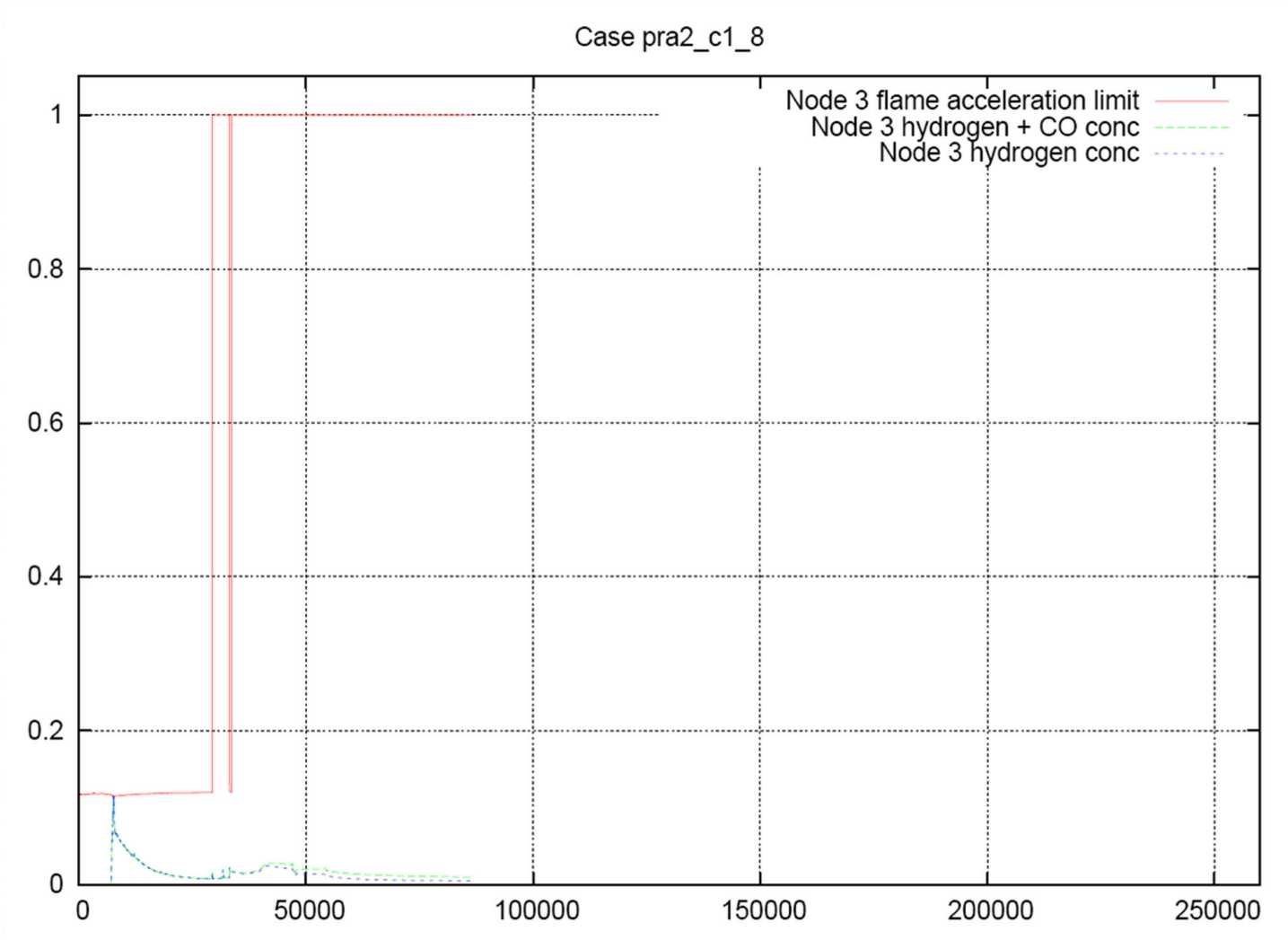

Figure A 161: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c1_8, containment node 3)

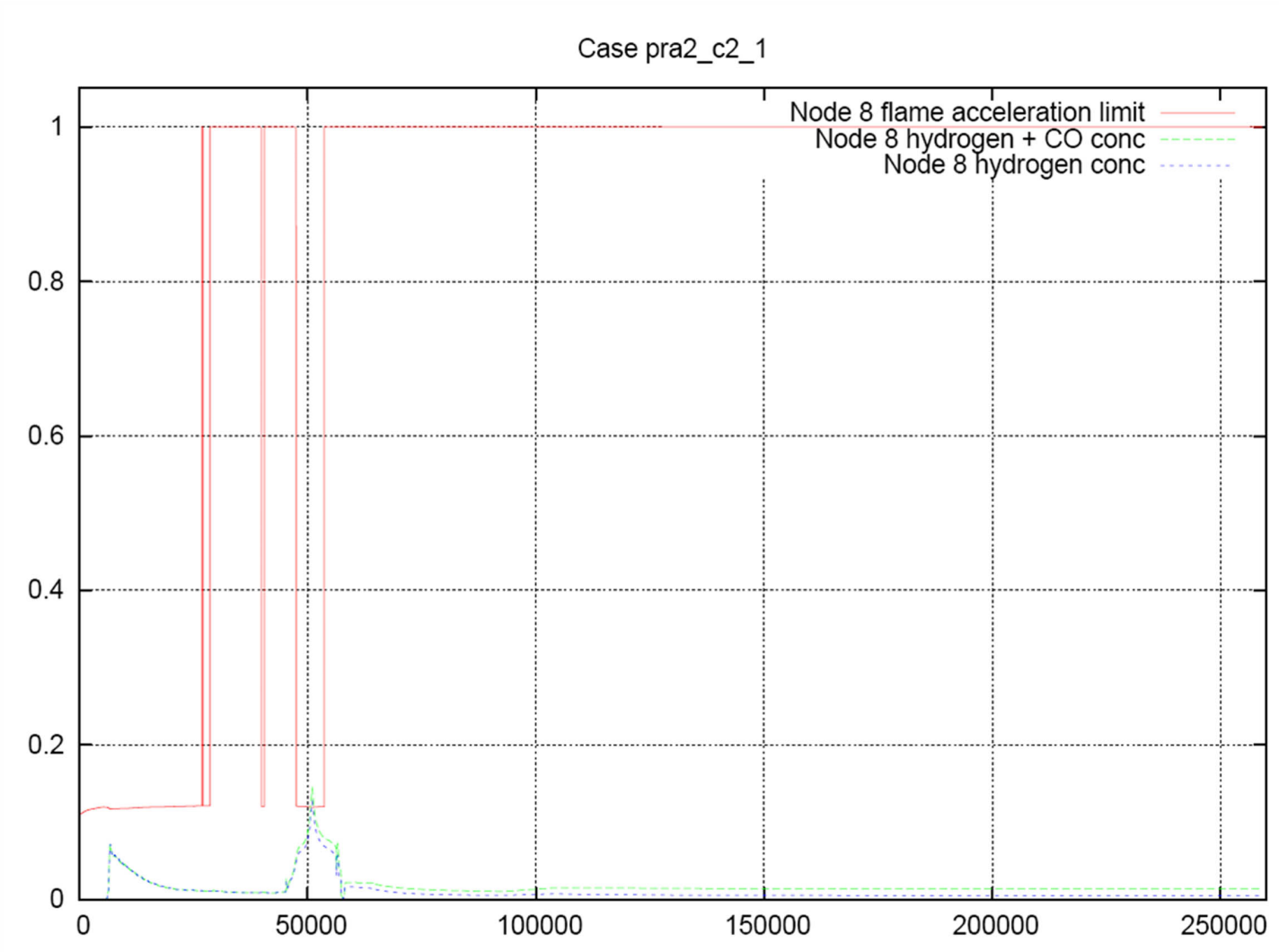

Figure A 162: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c2_1, containment node 8)

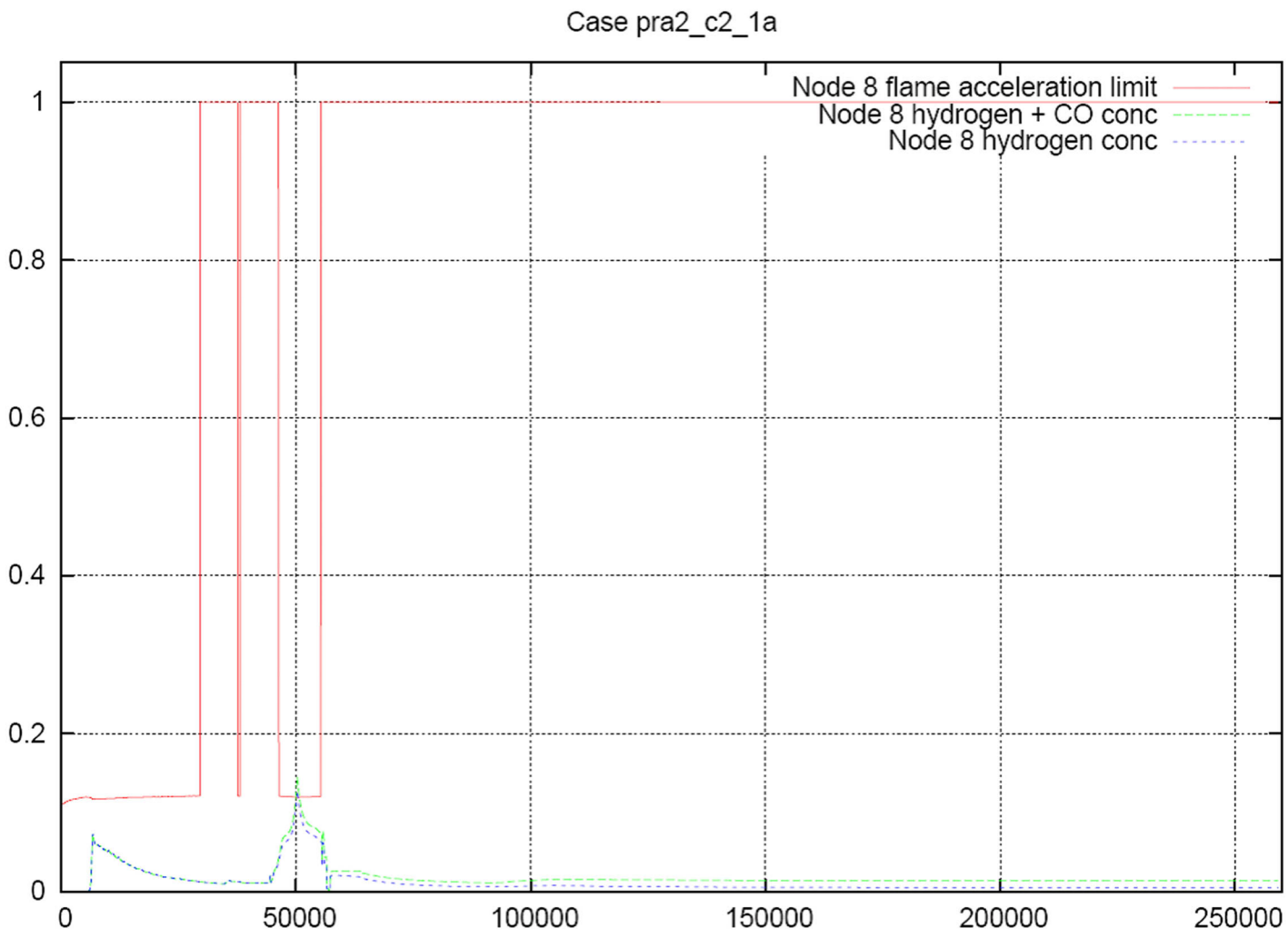

Figure A 163: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c2_1a, containment node 8)

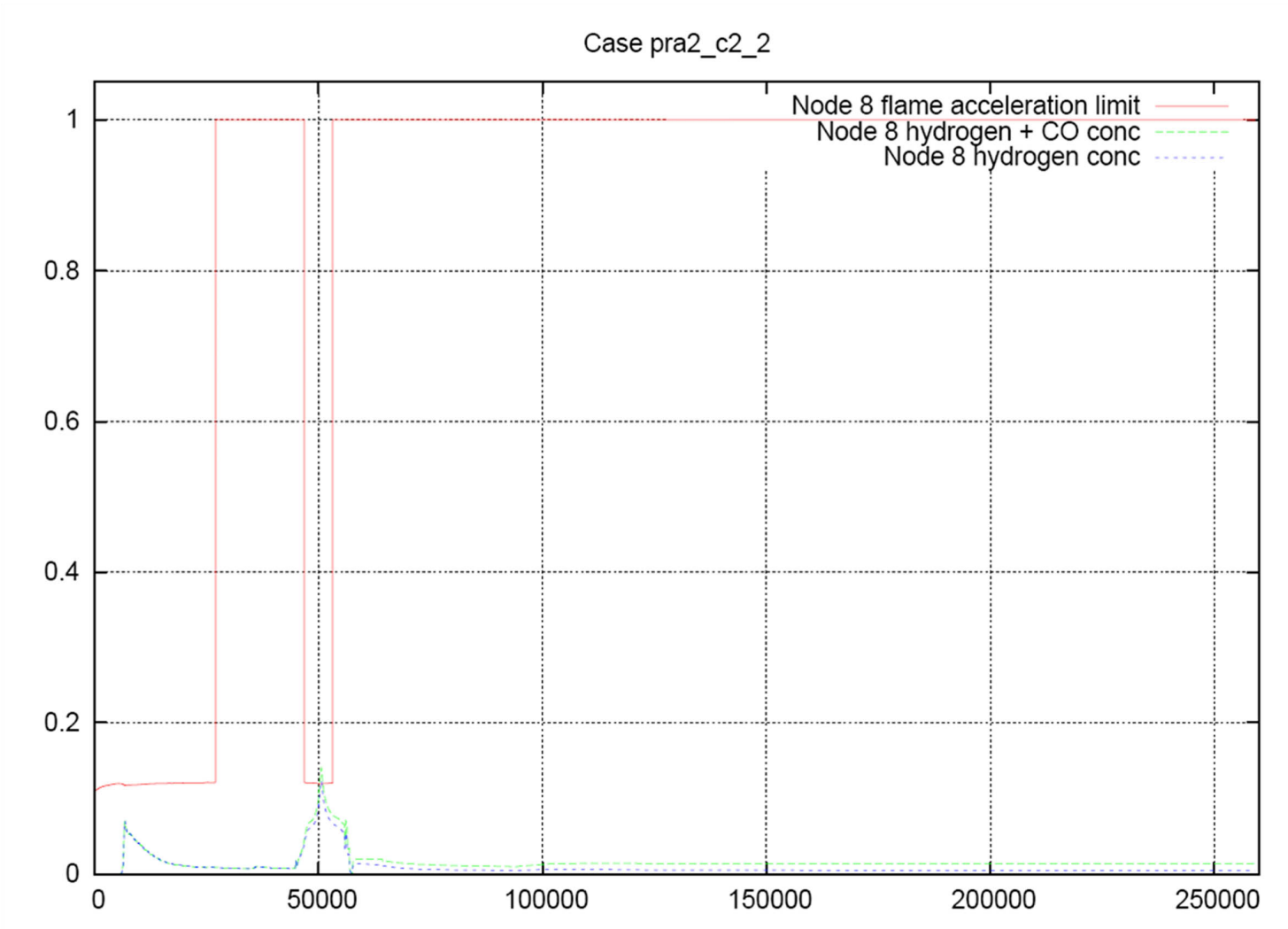

Figure A 164: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c2_2 containment node 8)

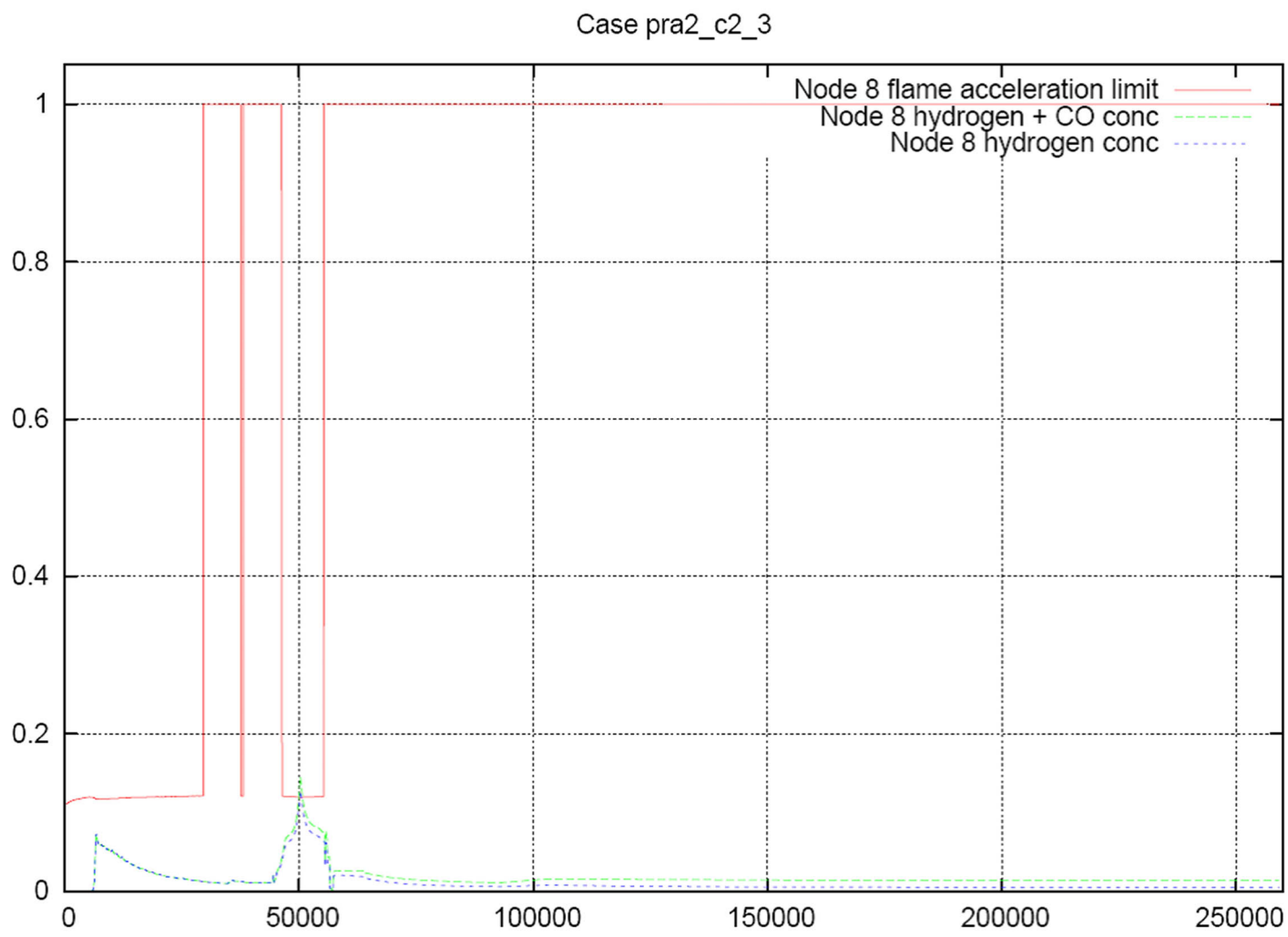

Figure A 165: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c2_3, containment node 8)

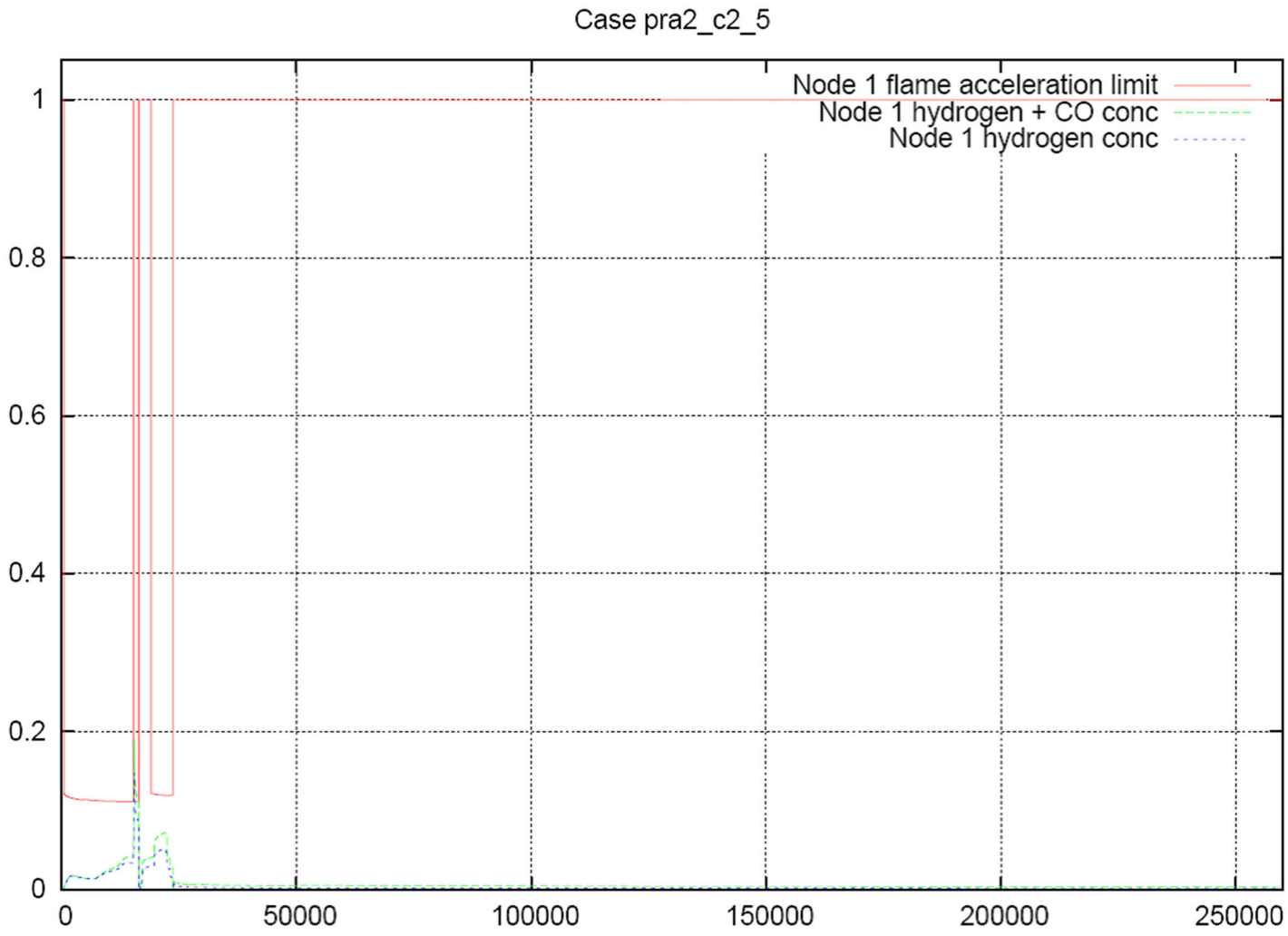

Figure A 166: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c2_5, containment node 1)

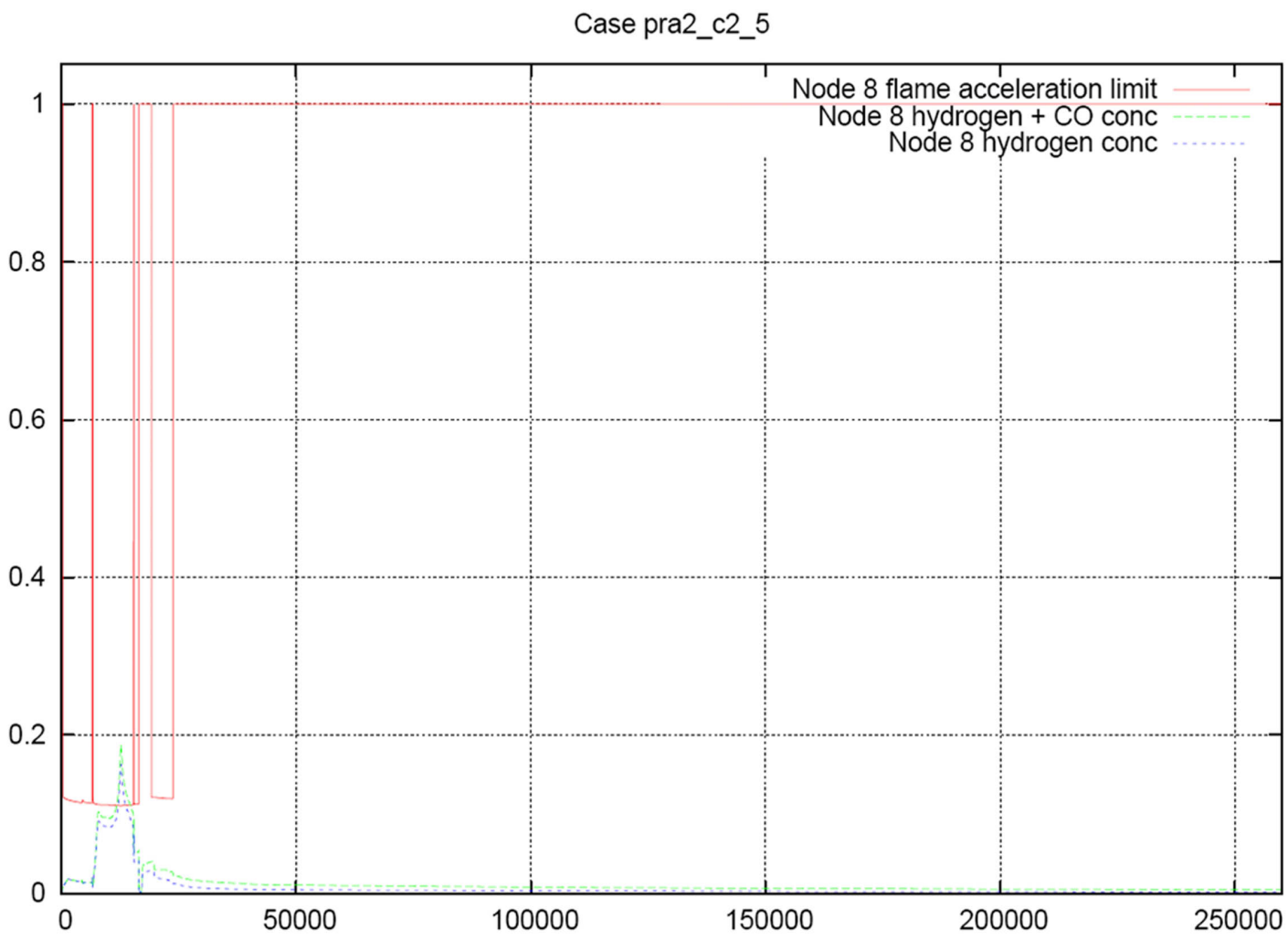

Figure A 167: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c2_5, containment node 8)

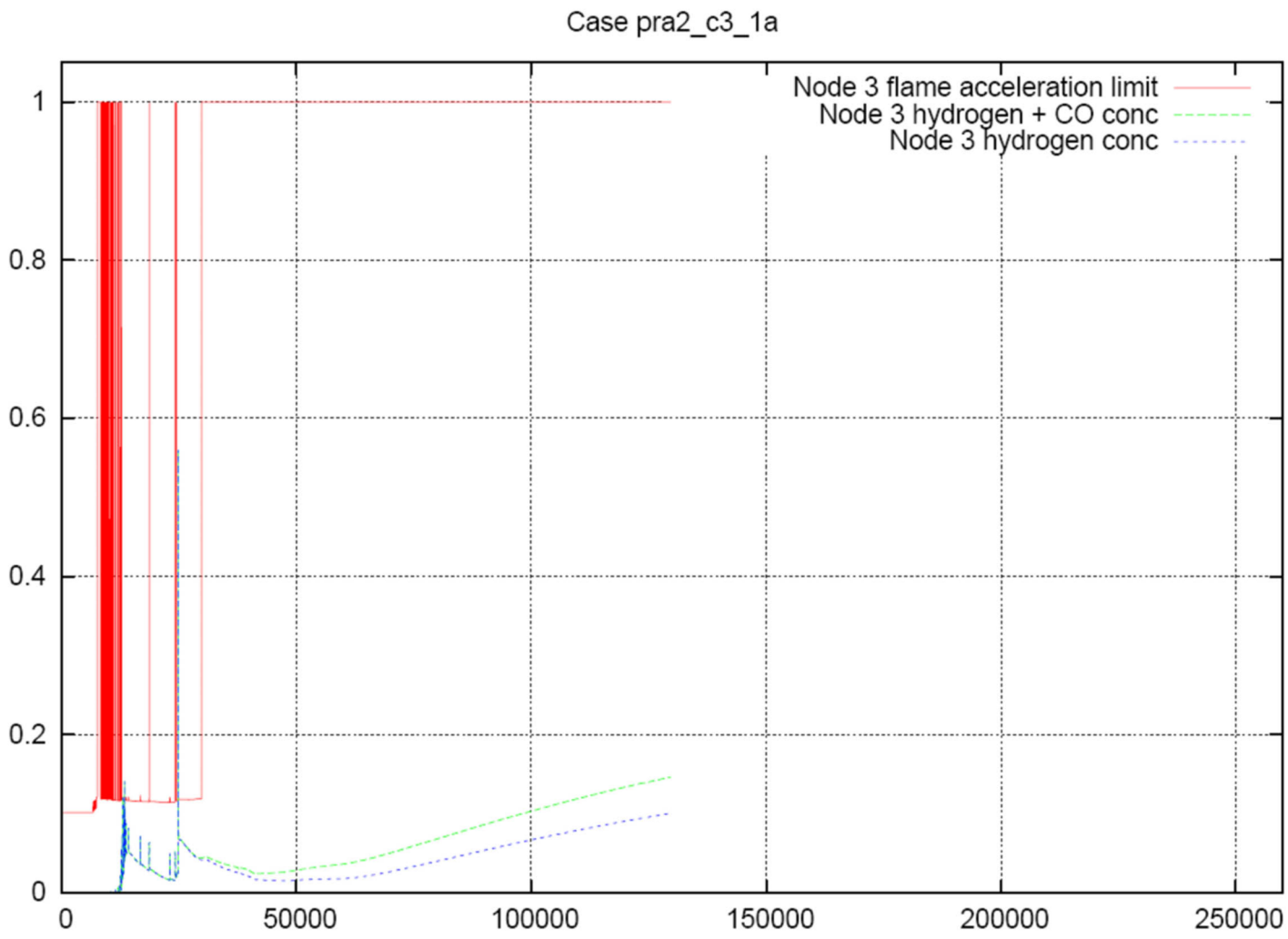

Figure A 168: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1a, containment node 3)

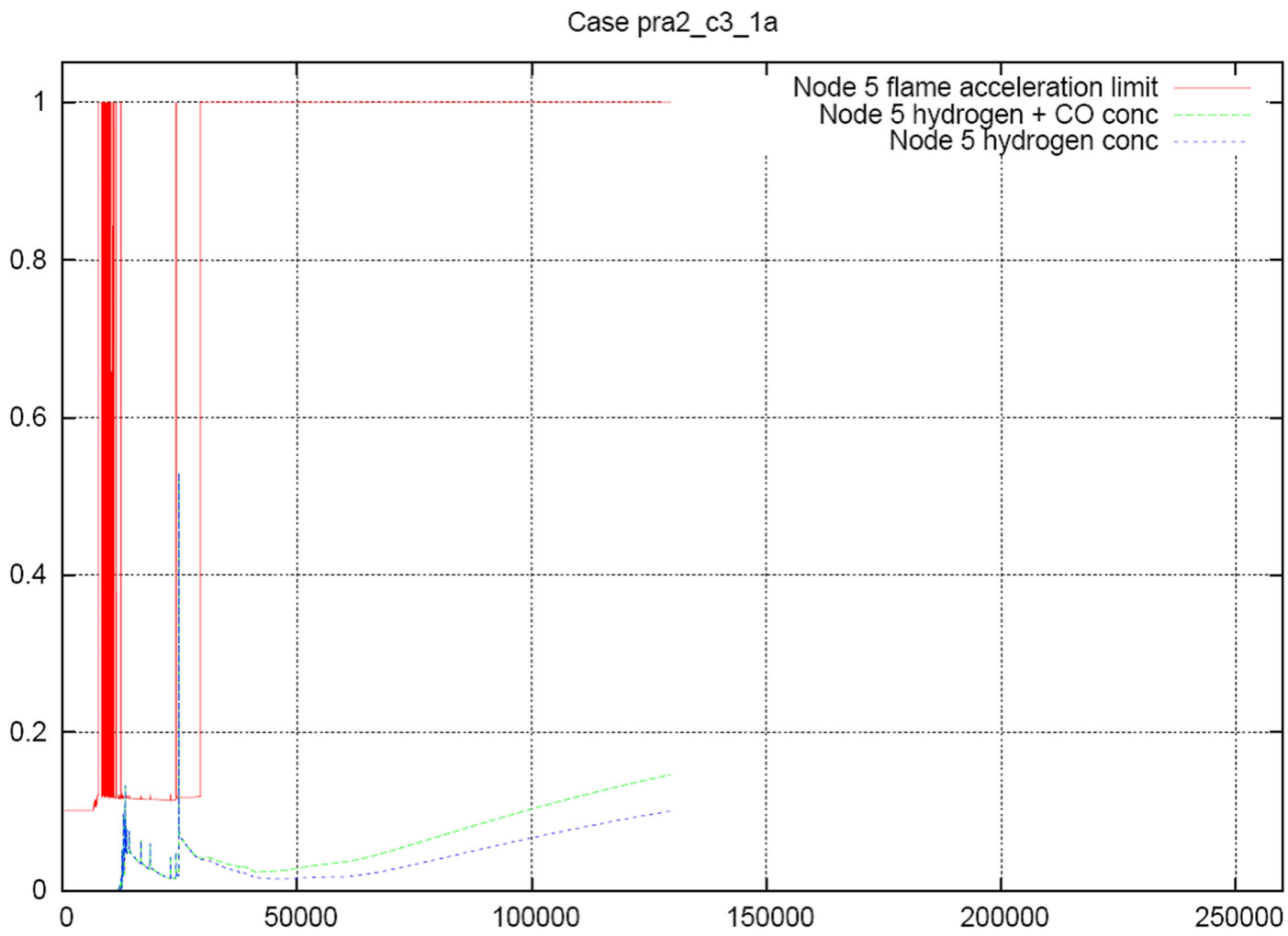

Figure A 169: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1a, containment node 5)

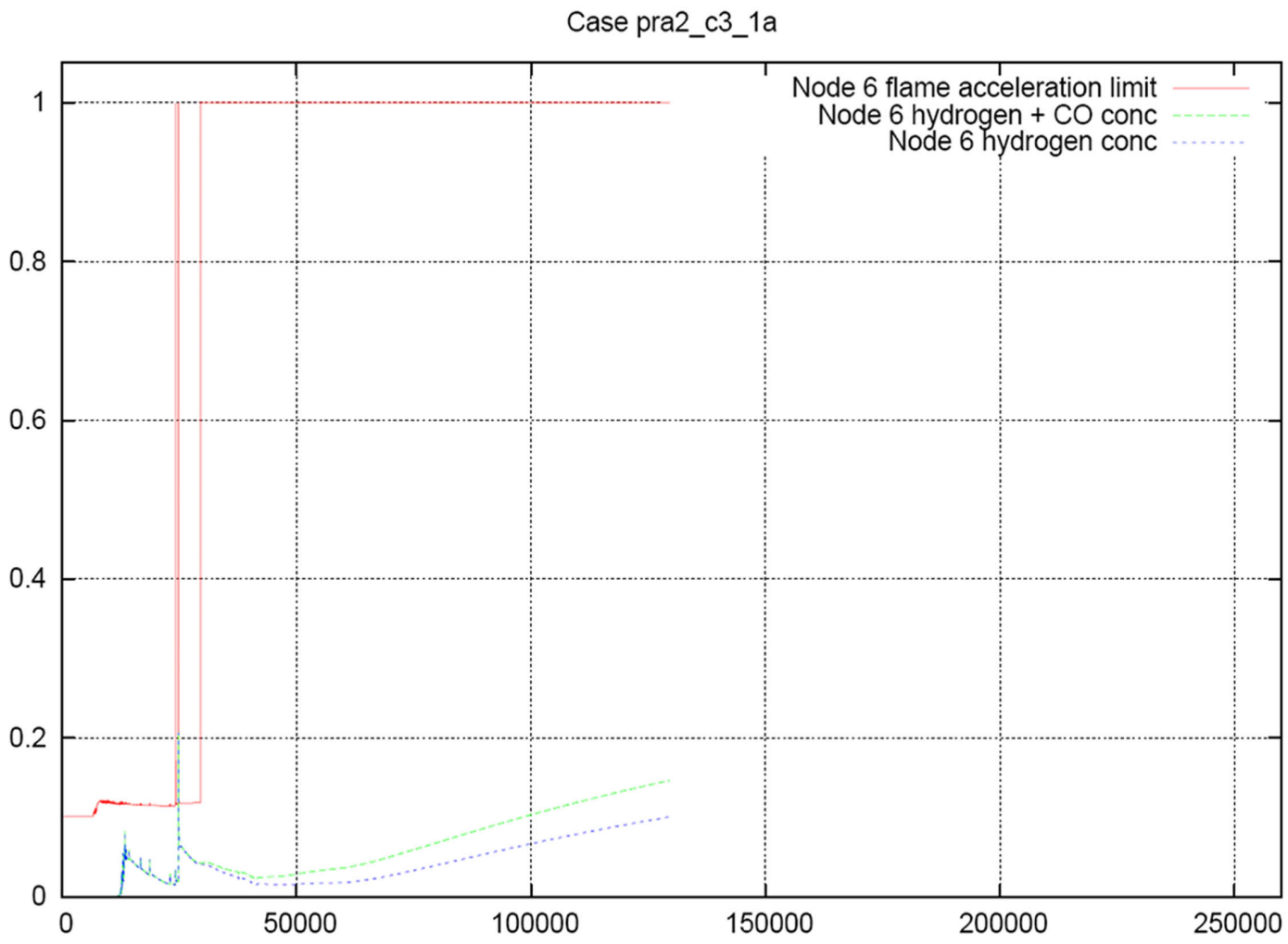

Figure A 170: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1a, containment node 6)

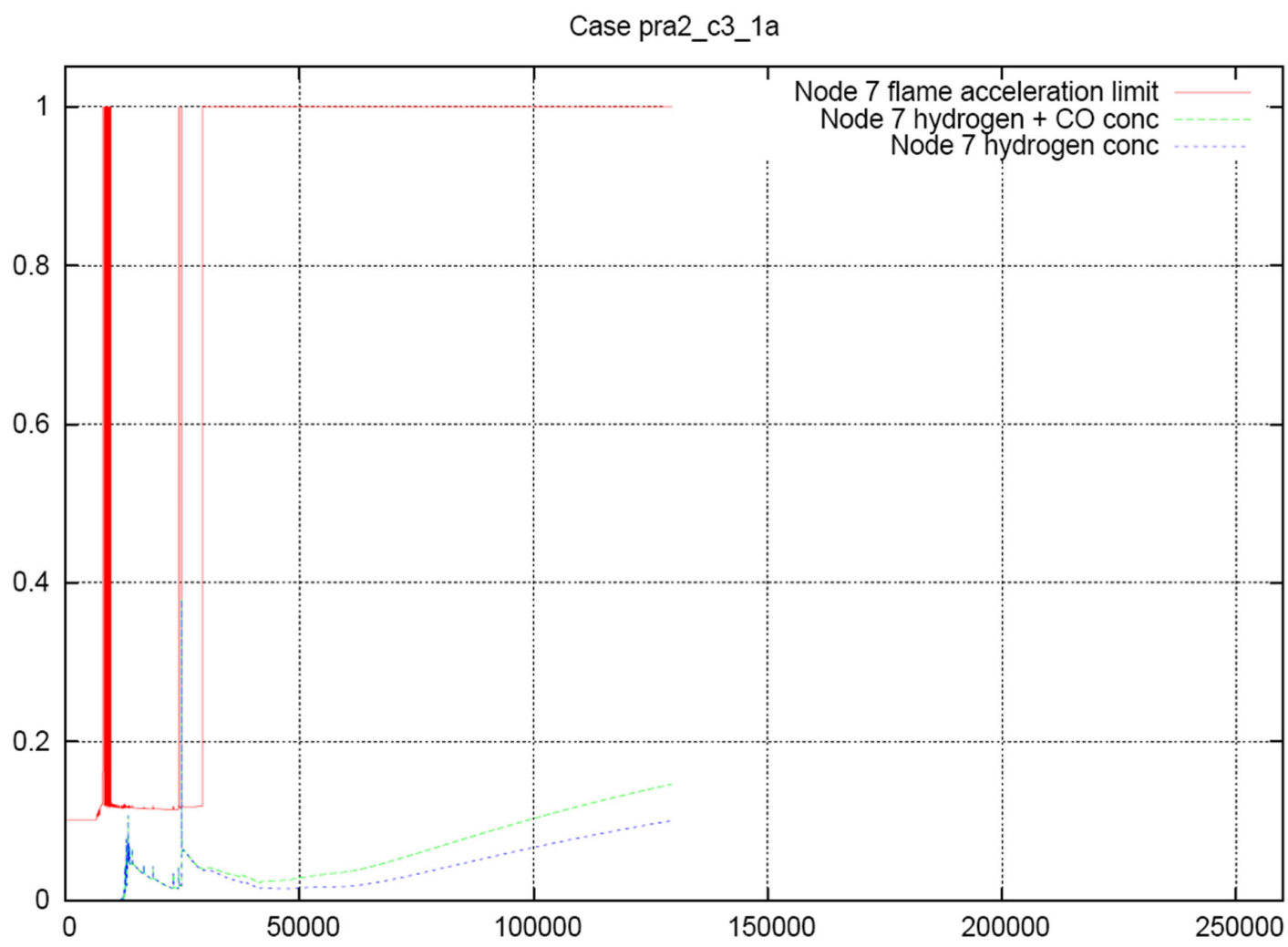

Figure A 171: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1a, containment node 7)

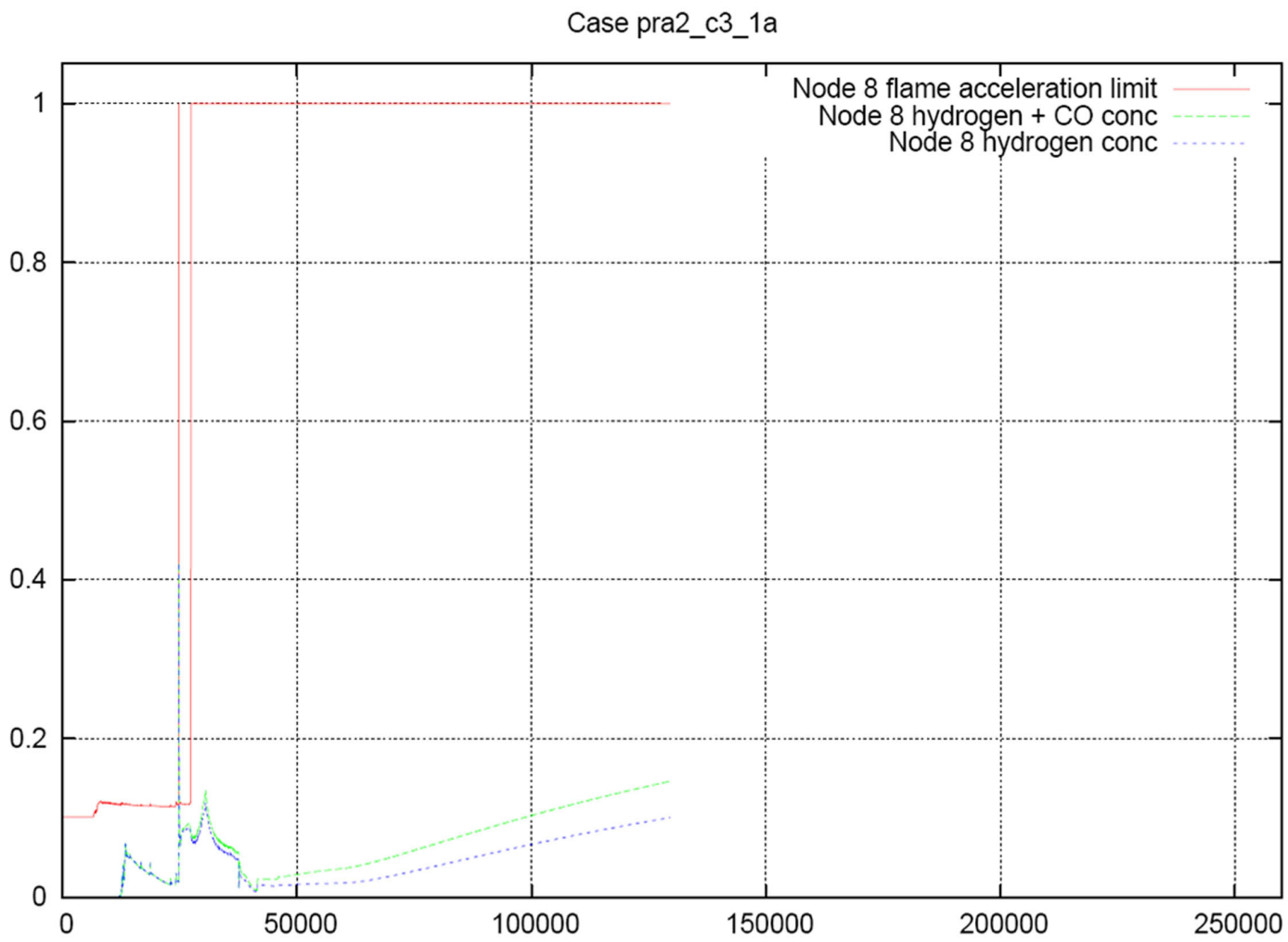

Figure A 172: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1a, containment node 8)

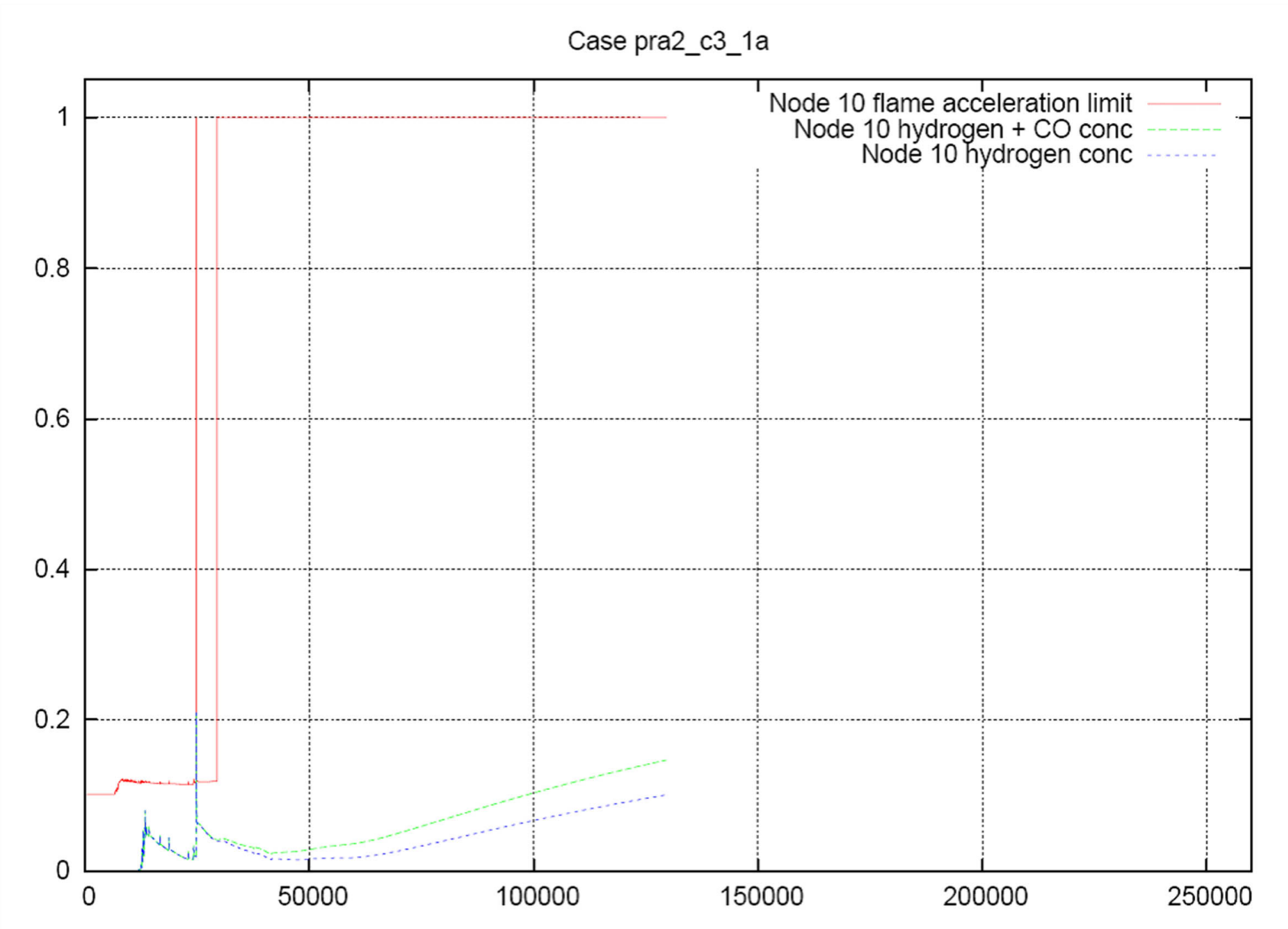

Figure A 173: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1a, containment node 10)

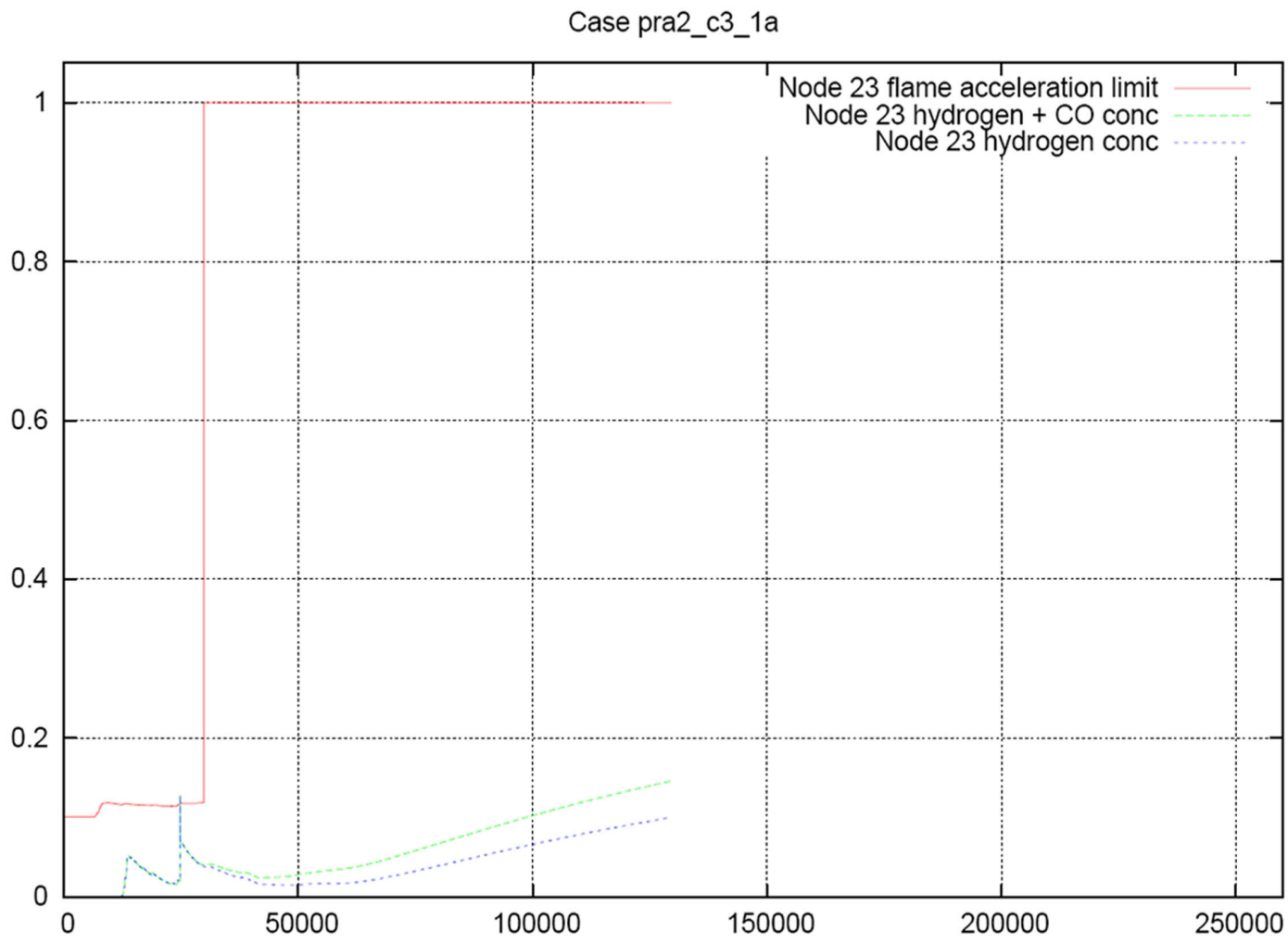

Figure A 174: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1a, containment node 23)

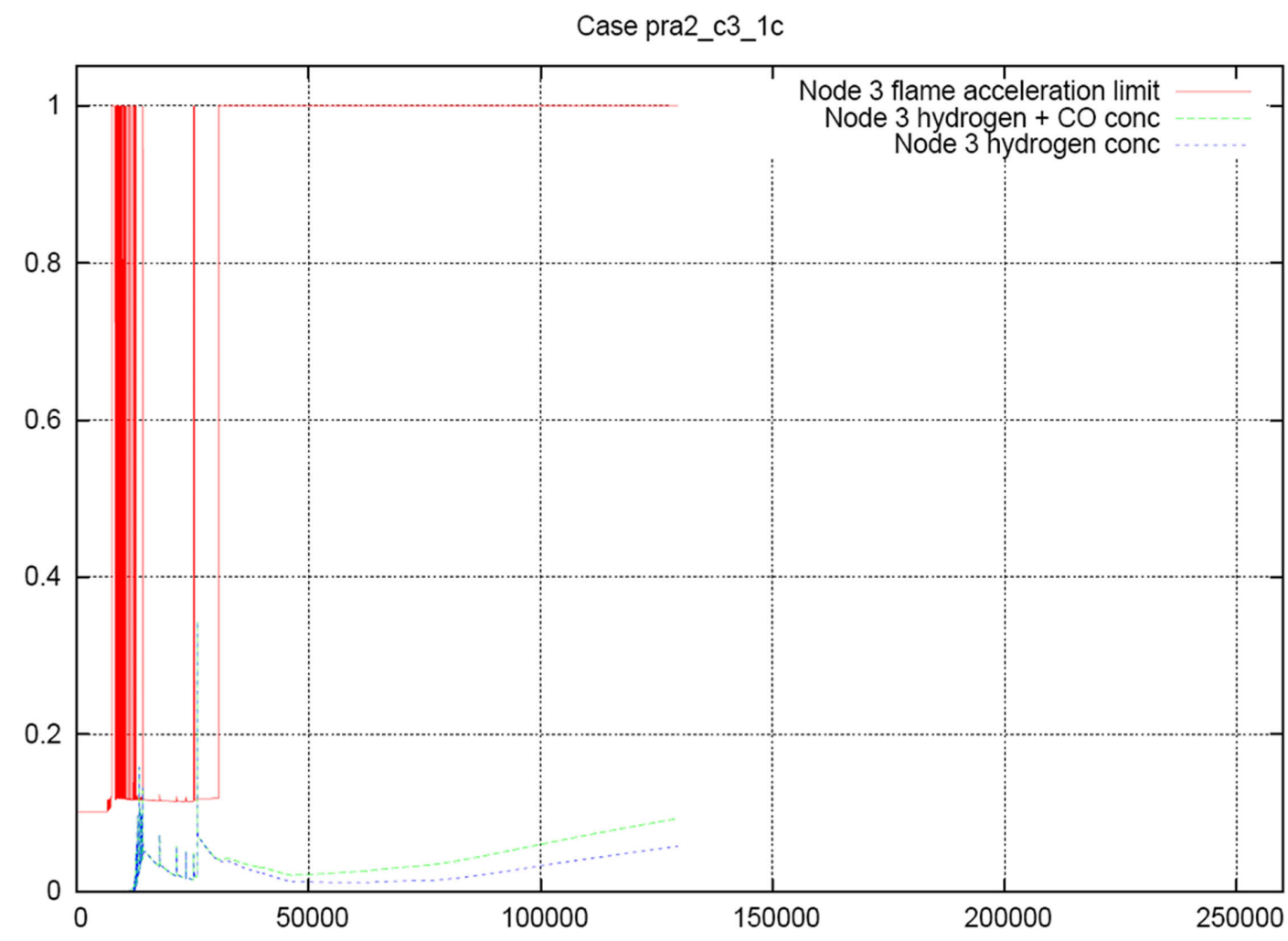

Figure A 175: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1c, containment node 3)

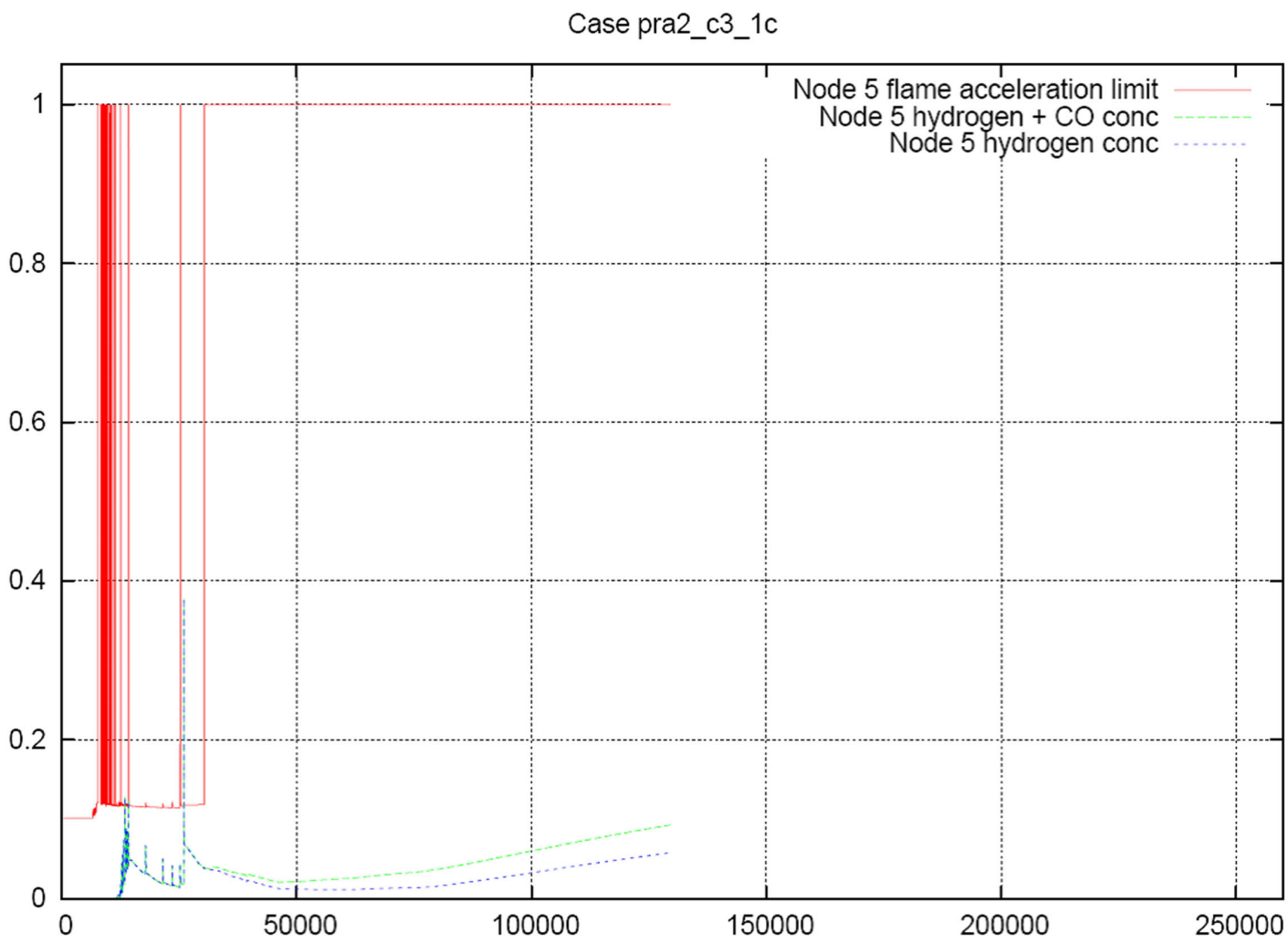

Figure A 176: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1c, containment node 5)

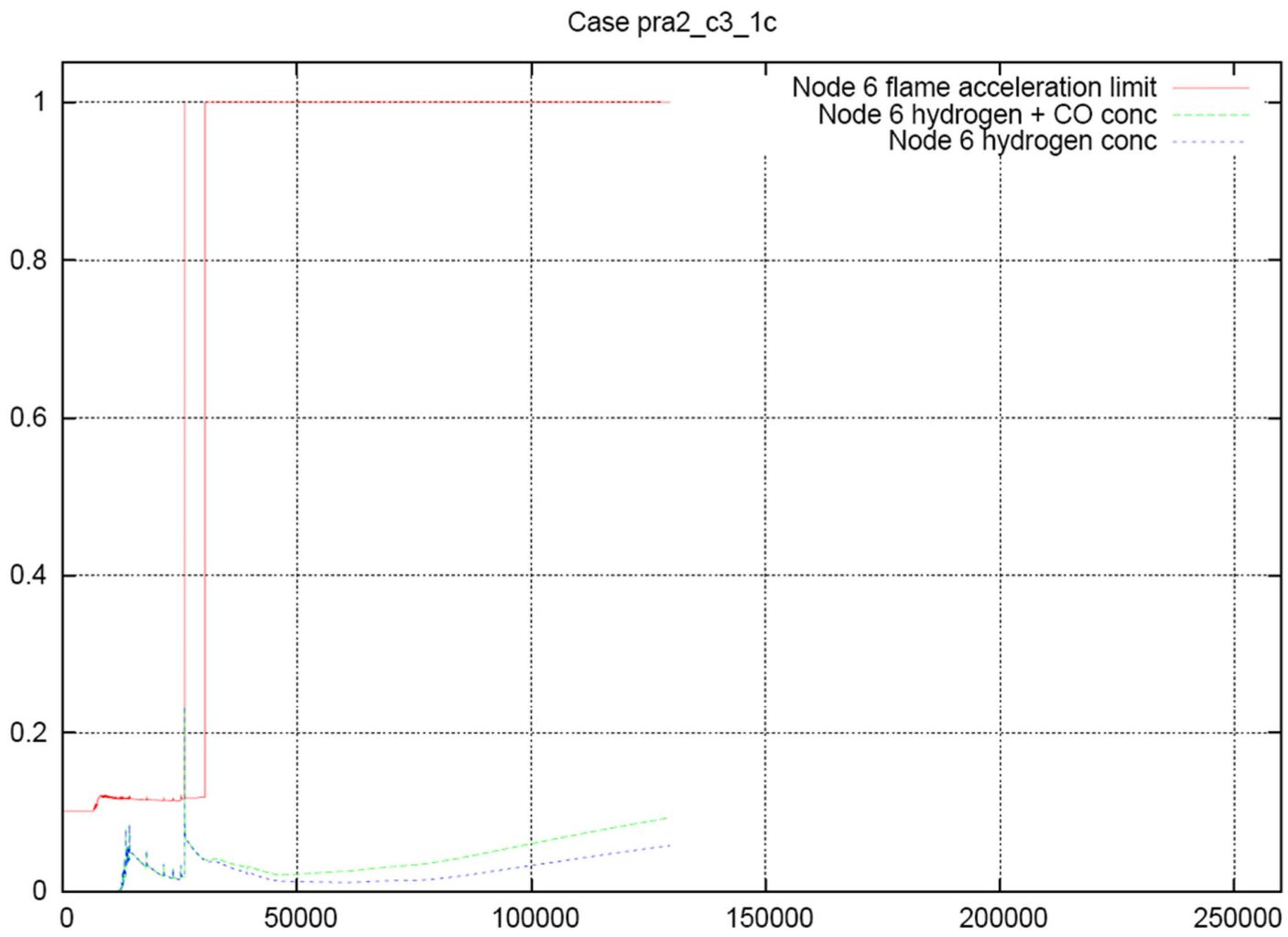

Figure A 177: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1c, containment node 6)

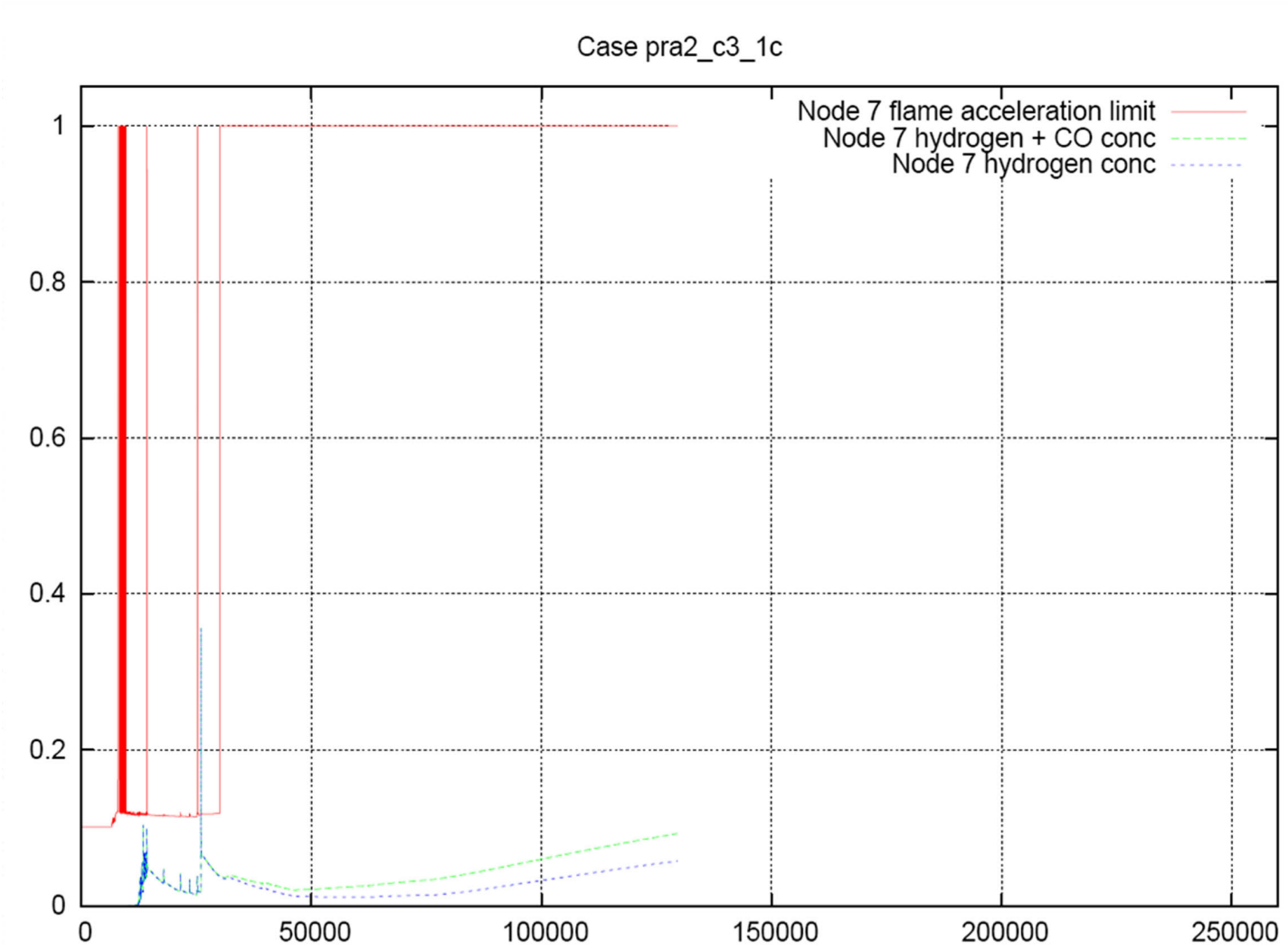

Figure A 178: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1c, containment node 7)

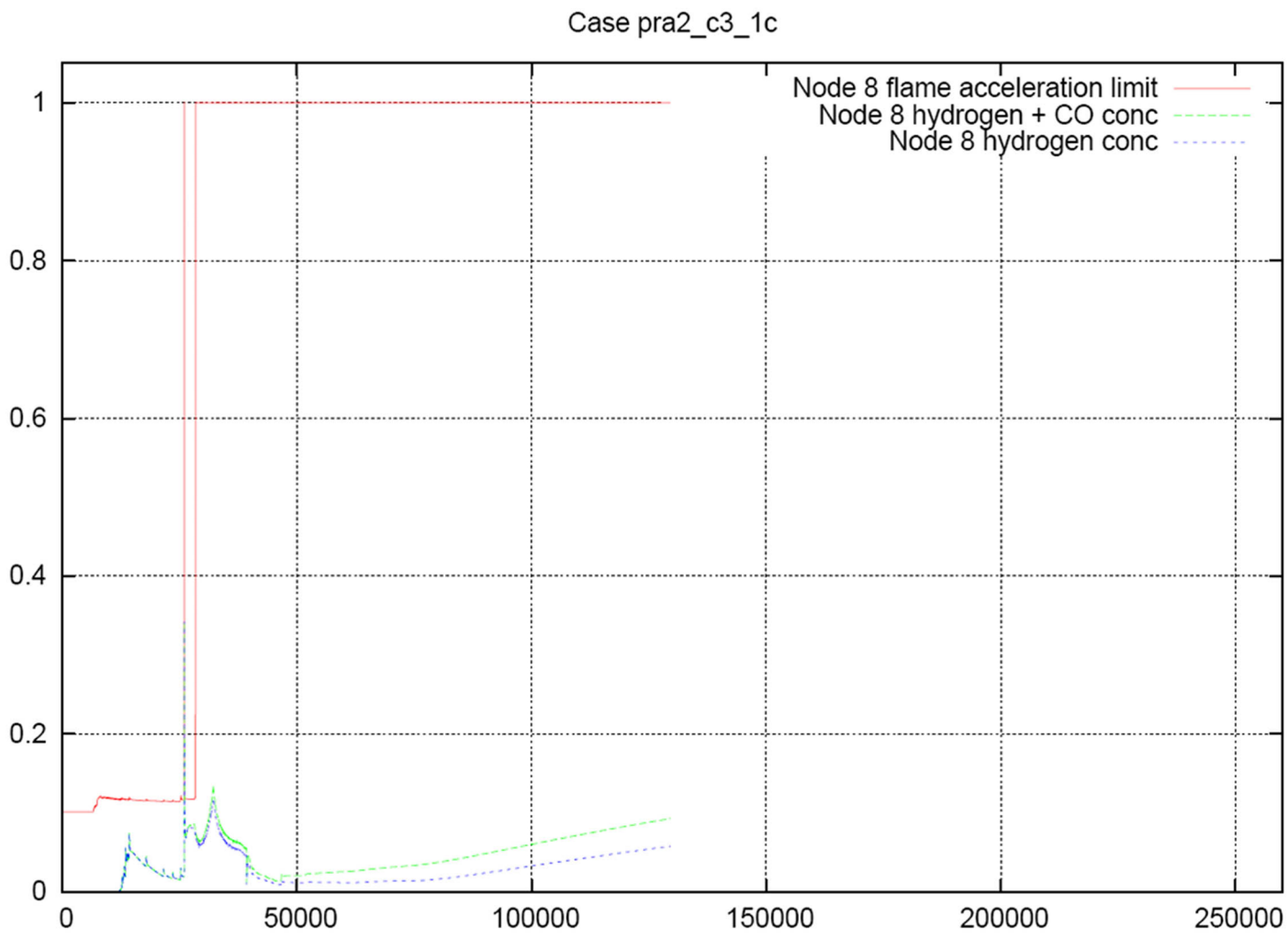

Figure A 179: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1c, containment node 8)

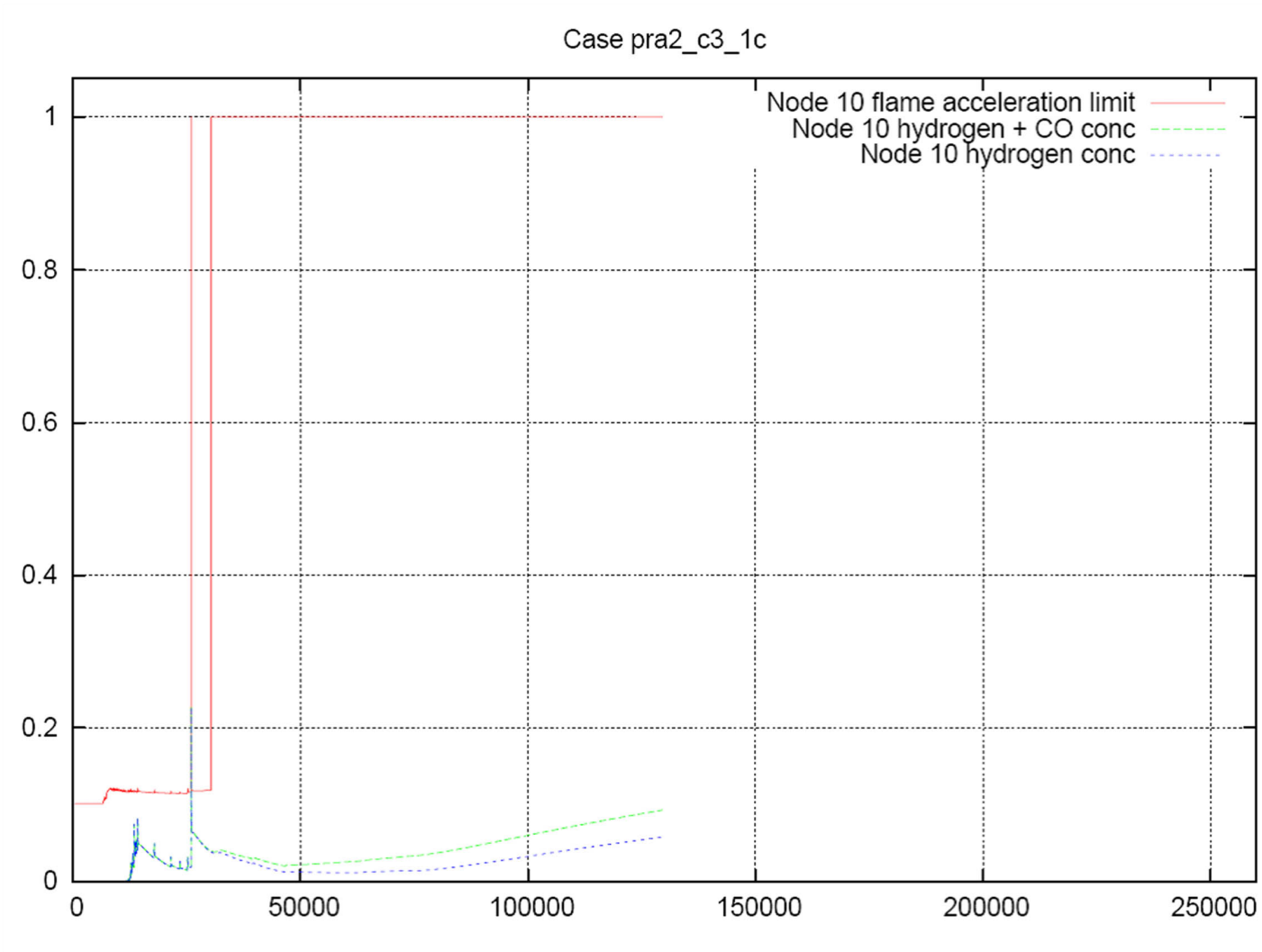

Figure A 180: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1c, containment node 10)

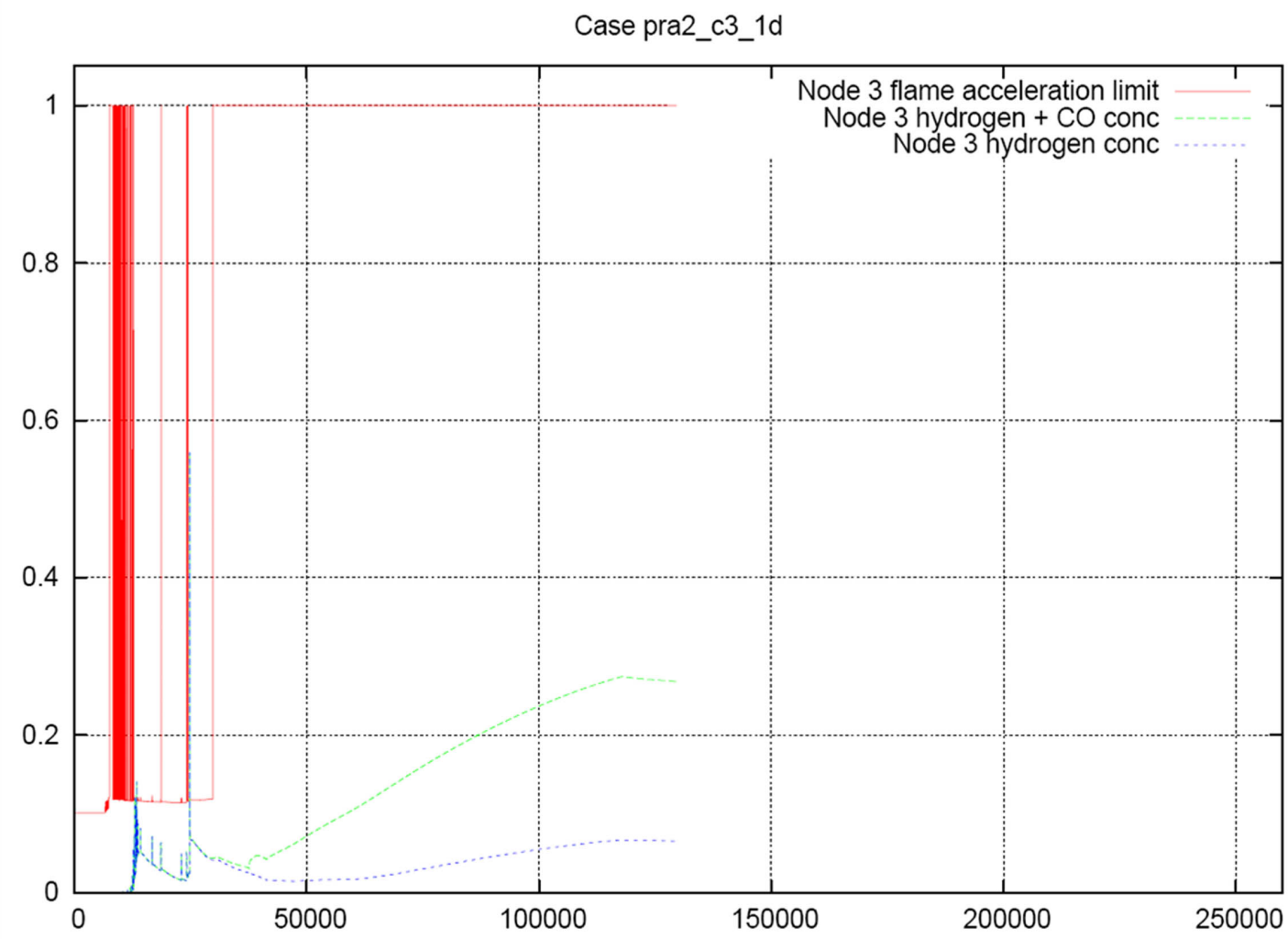

Figure A 181: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1d, containment node 3)

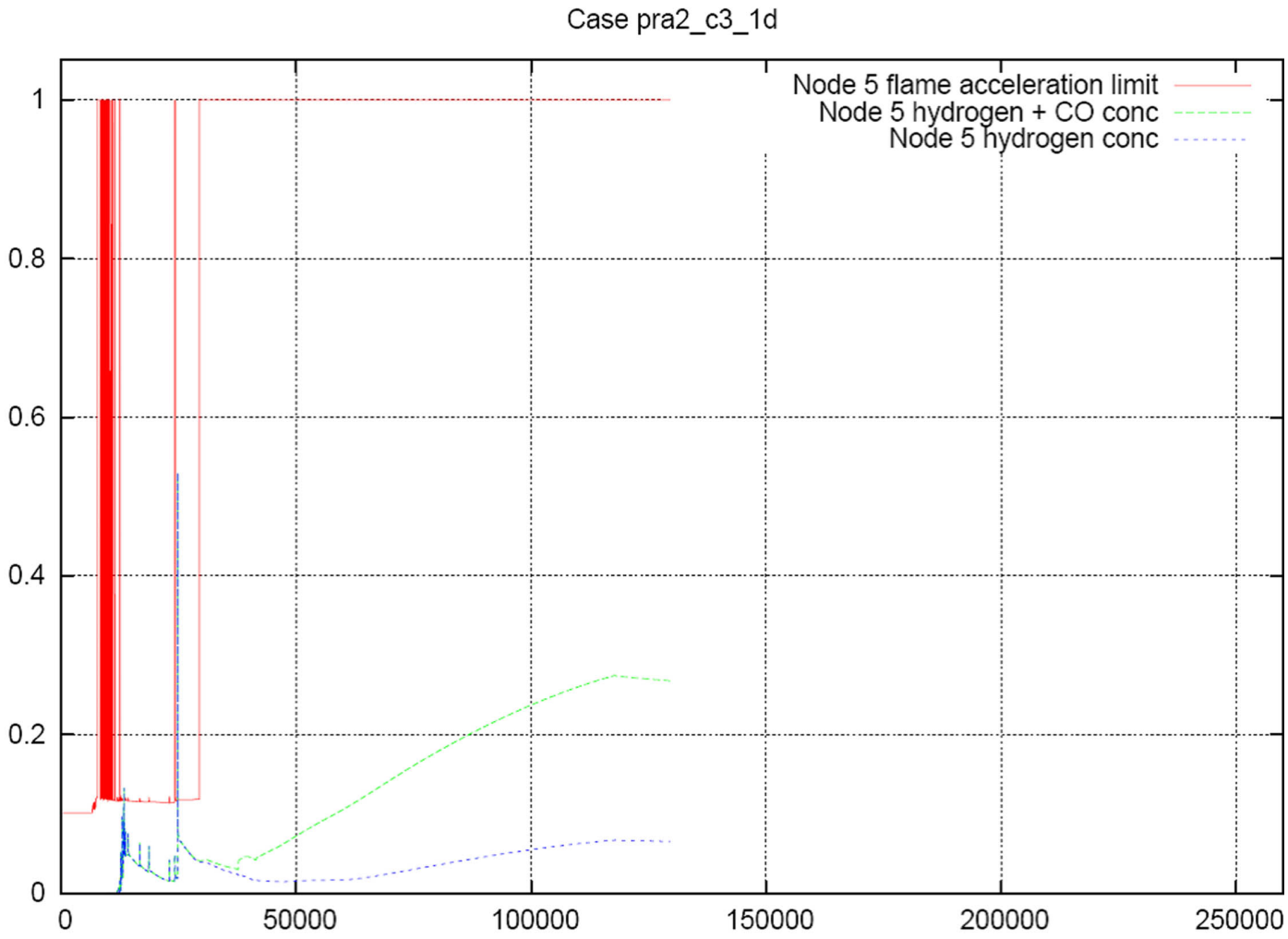

Figure A 182: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1d, containment node 5)

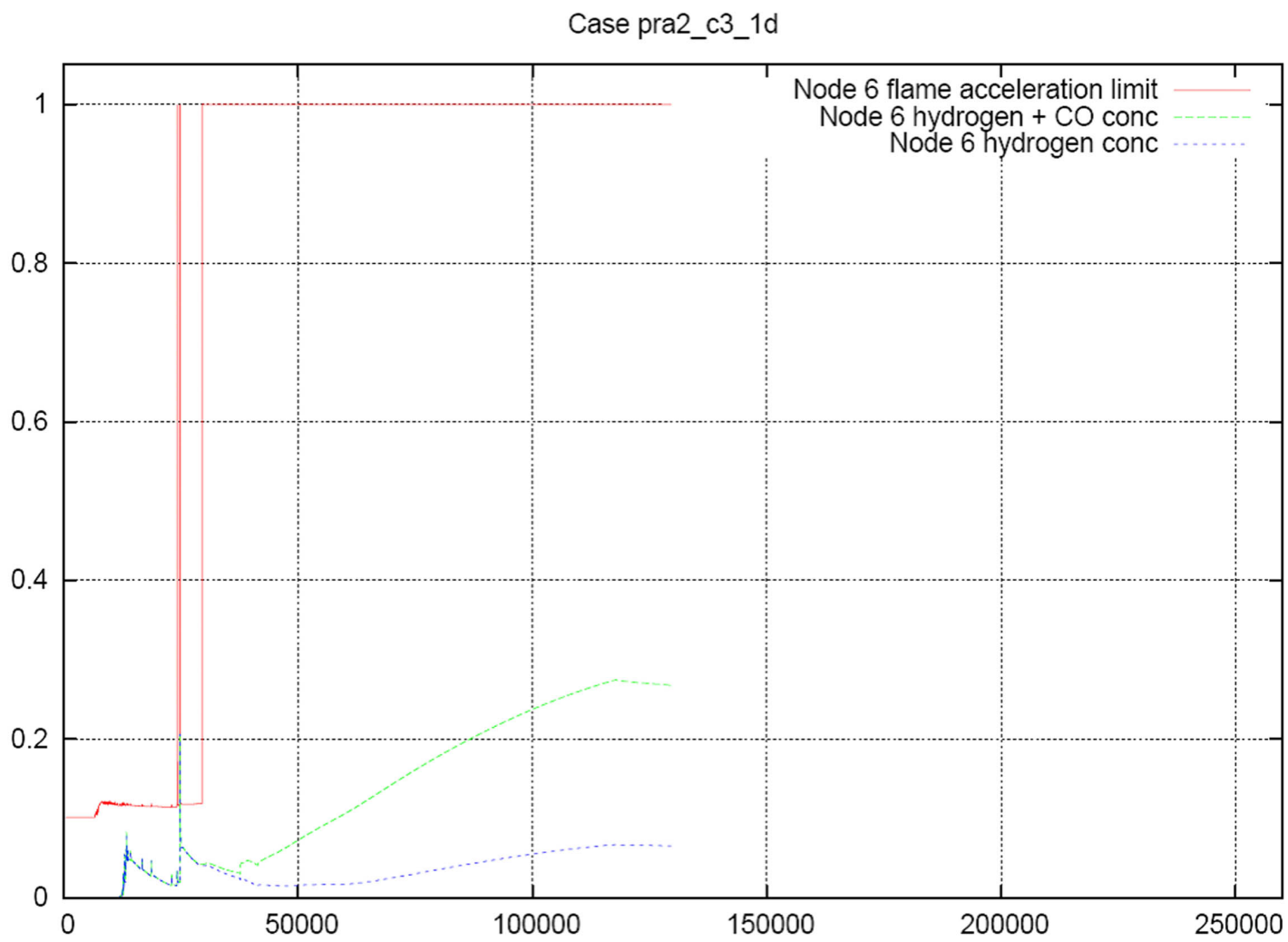

Figure A 183: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1d, containment node 6)

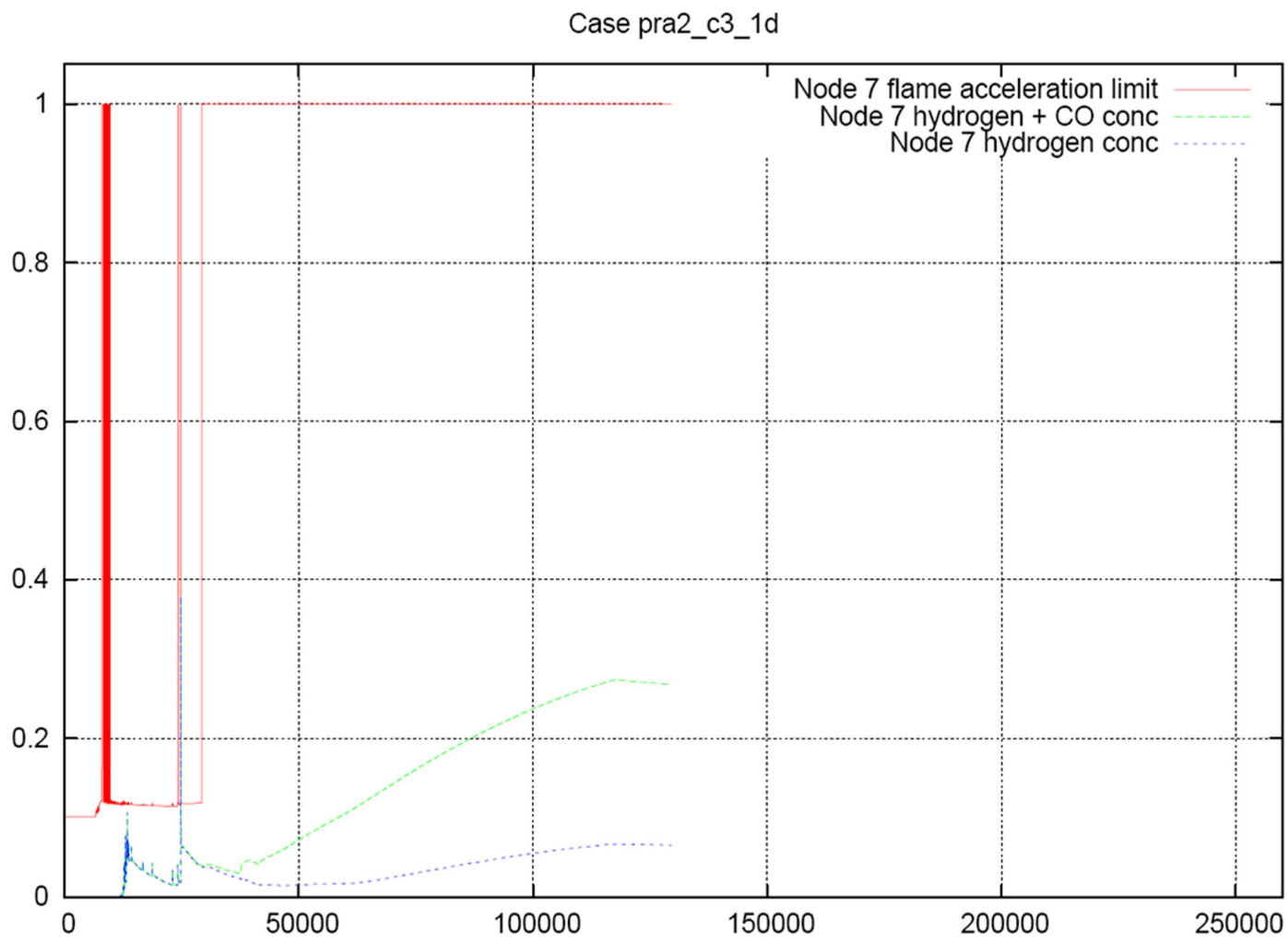

Figure A 184: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1d, containment node 7)

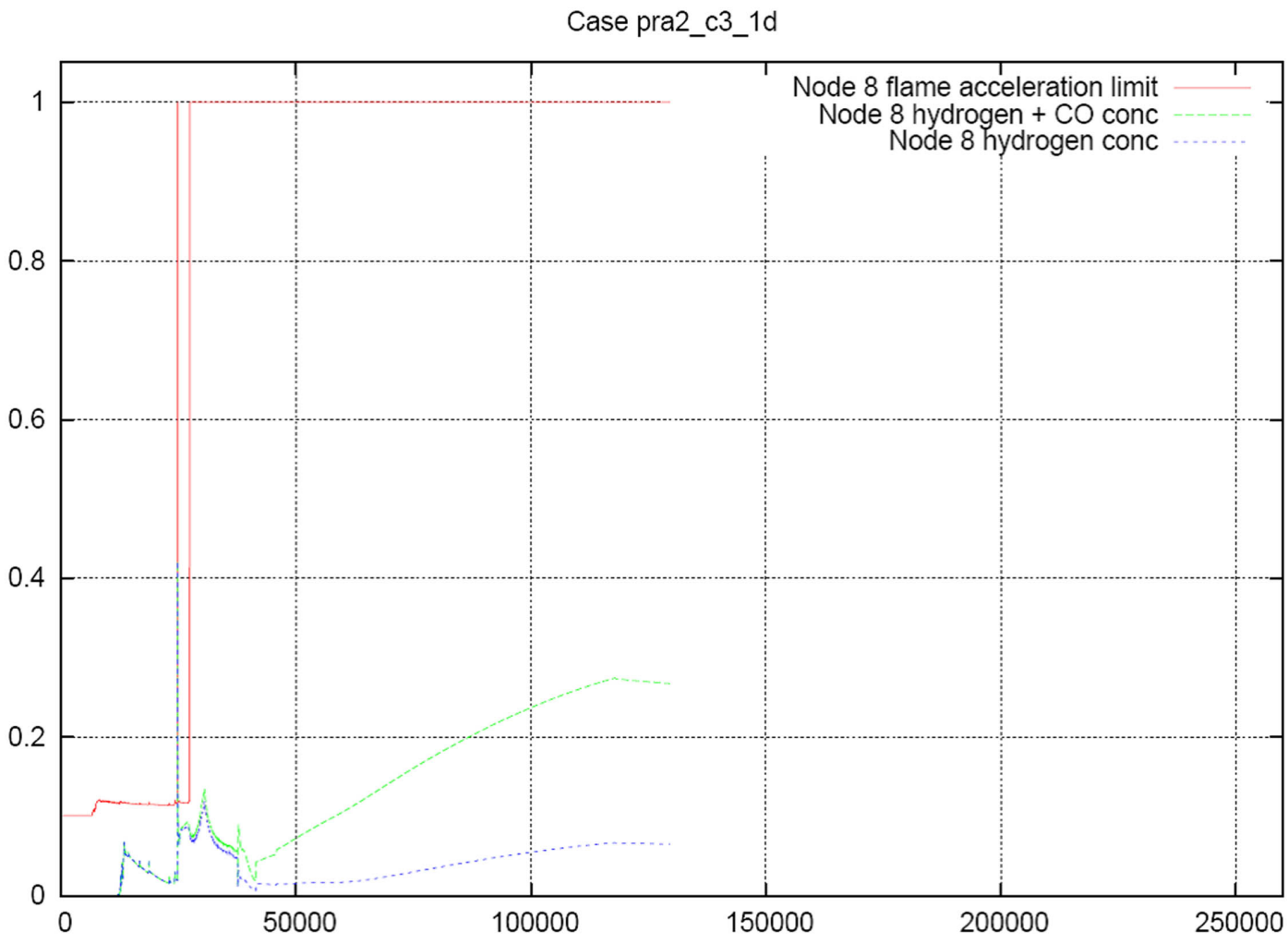

Figure A 185: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1d, containment node 8)

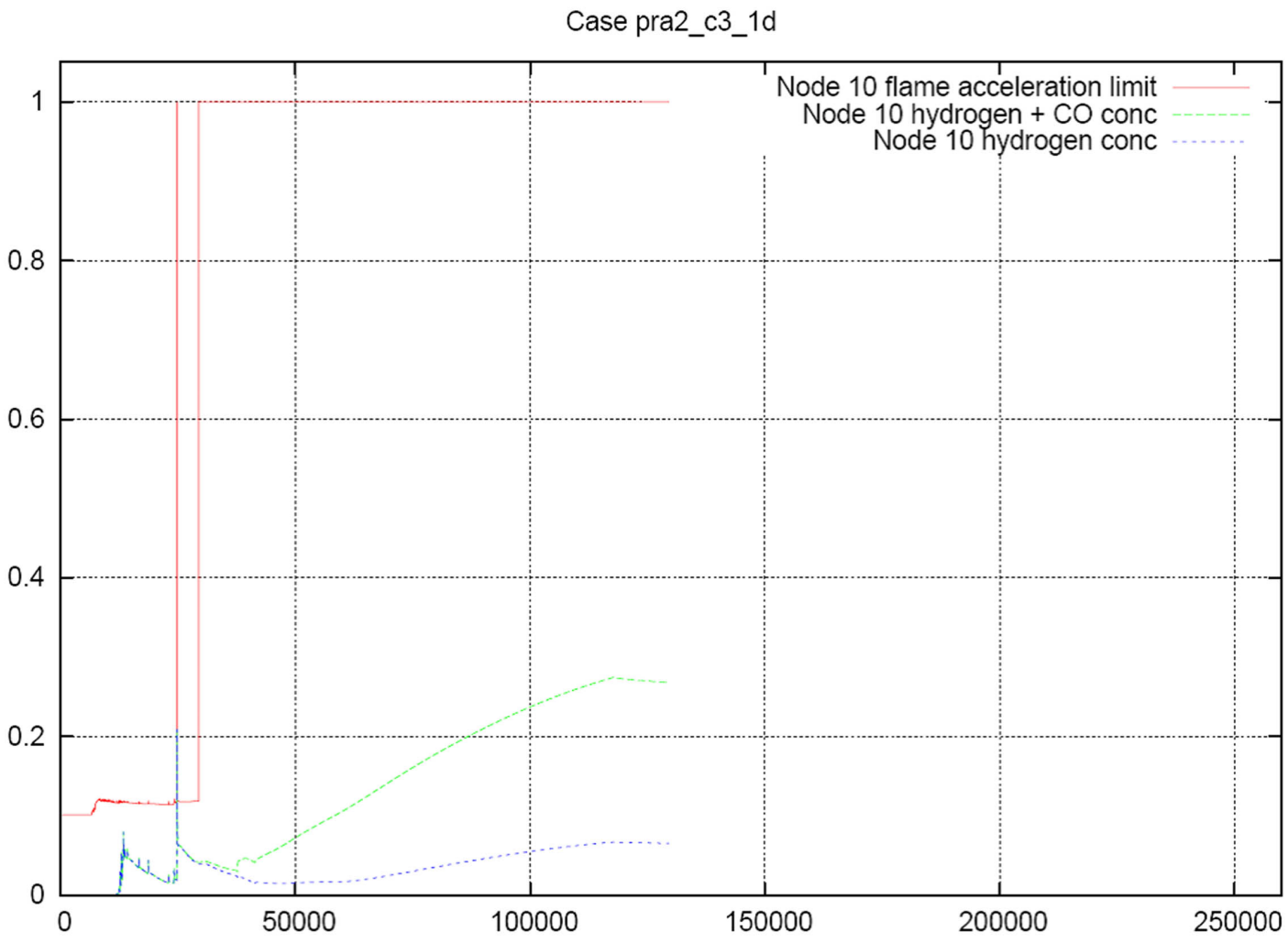

Figure A 186: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1d, containment node 10)

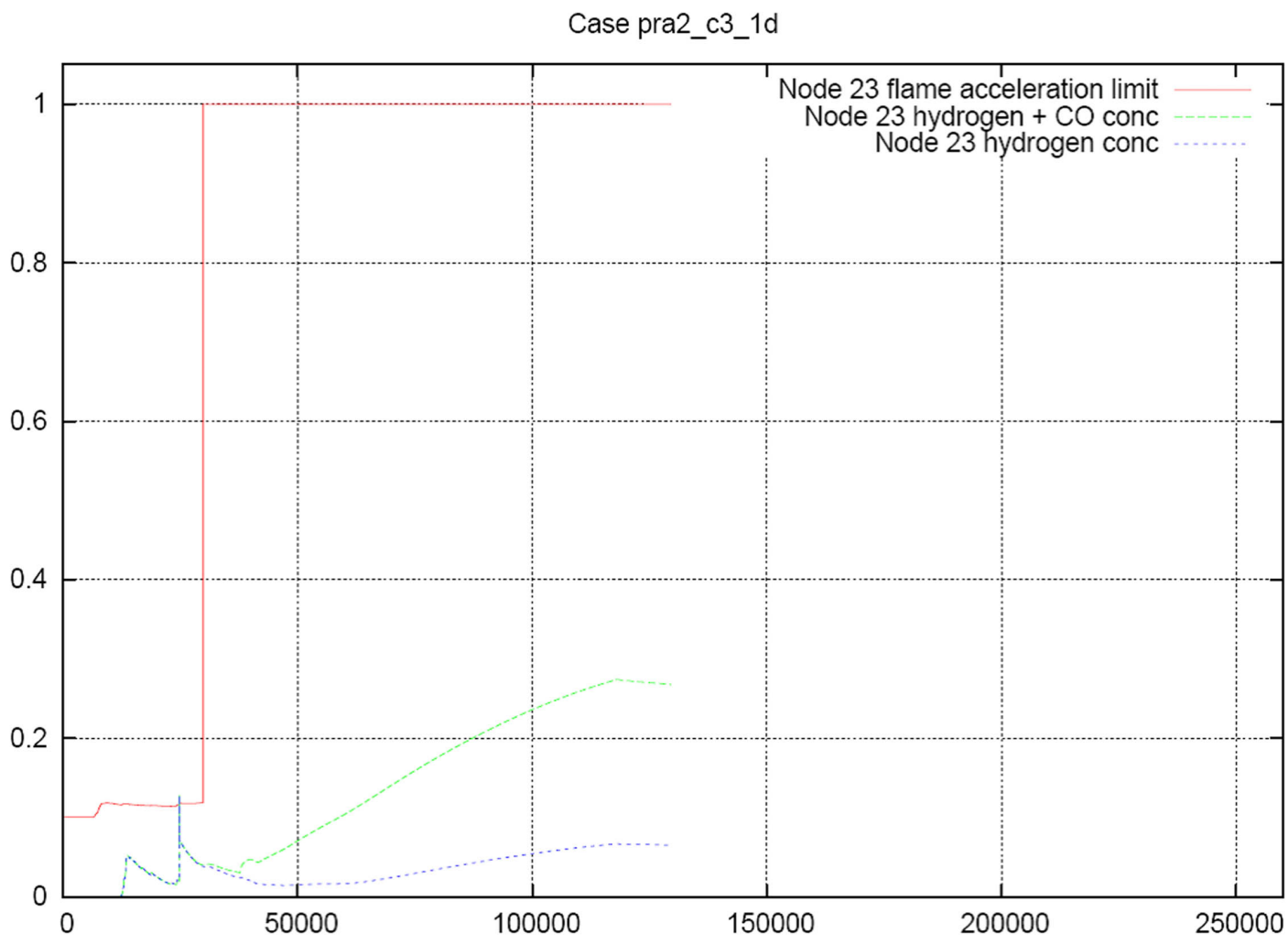

Figure A 187: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_1d, containment node 23)

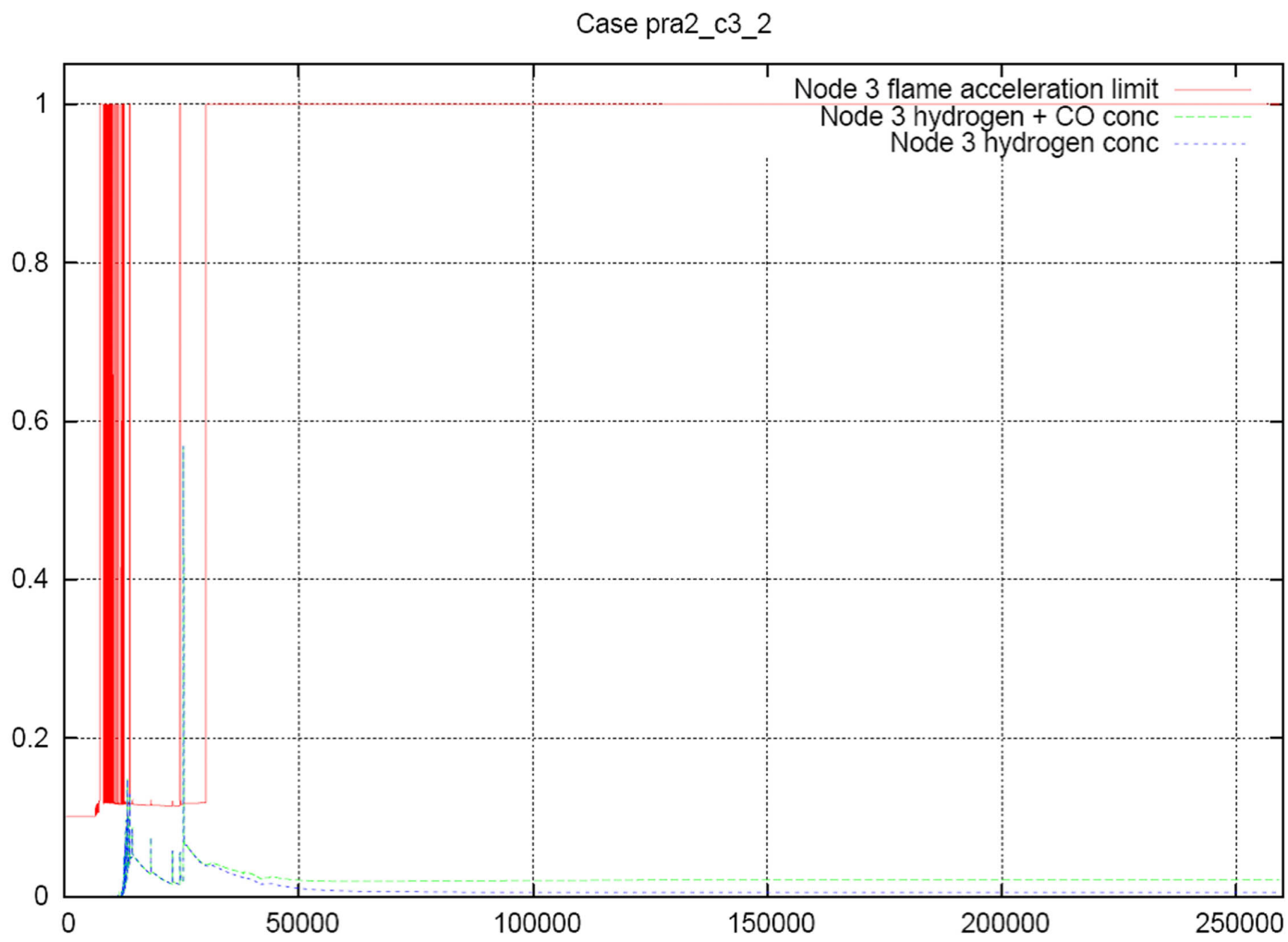

Figure A 188: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_2, containment node 3)

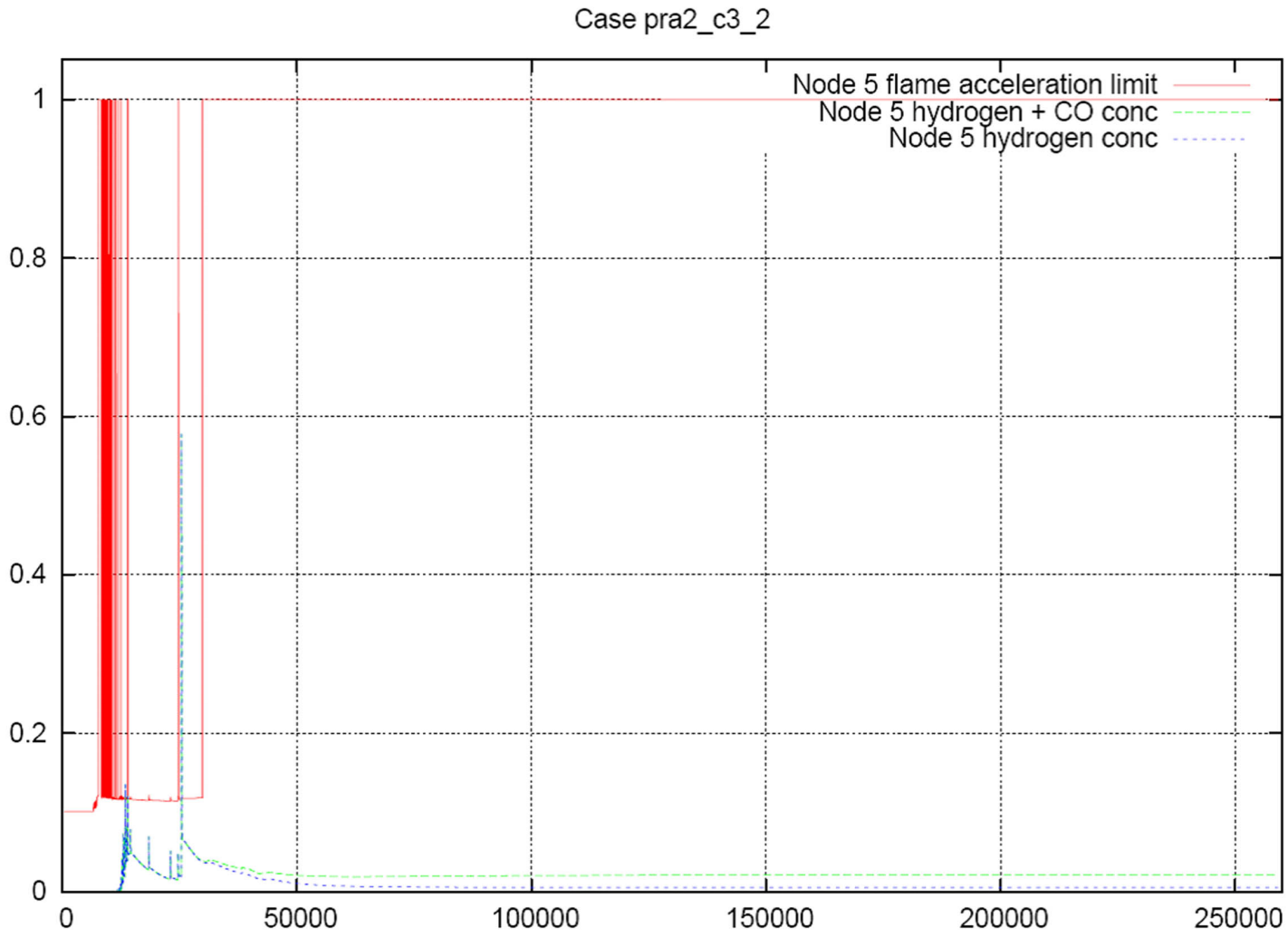

Figure A 189: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_2, containment node 5)

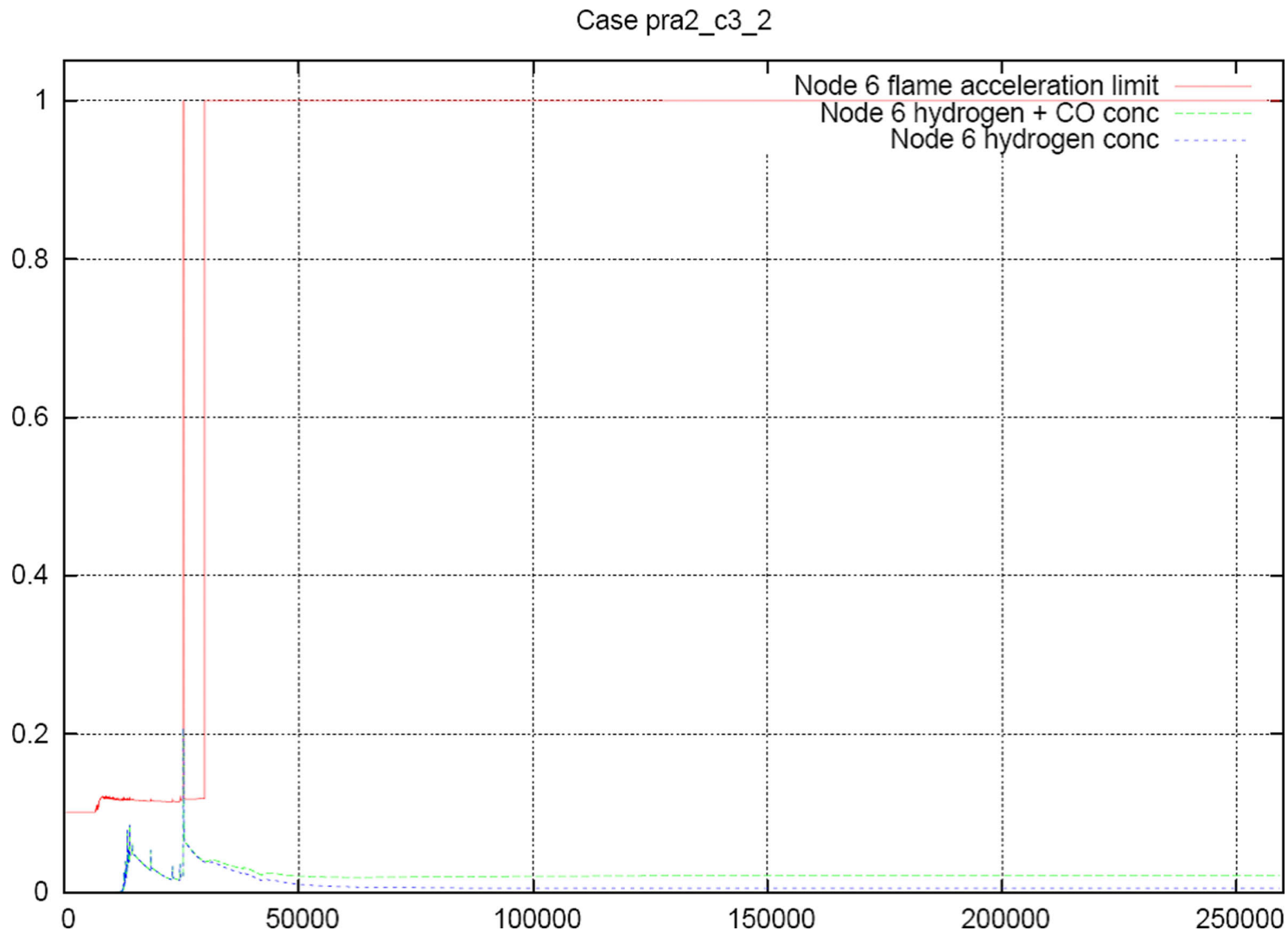

Figure A 190: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_2, containment node 6)

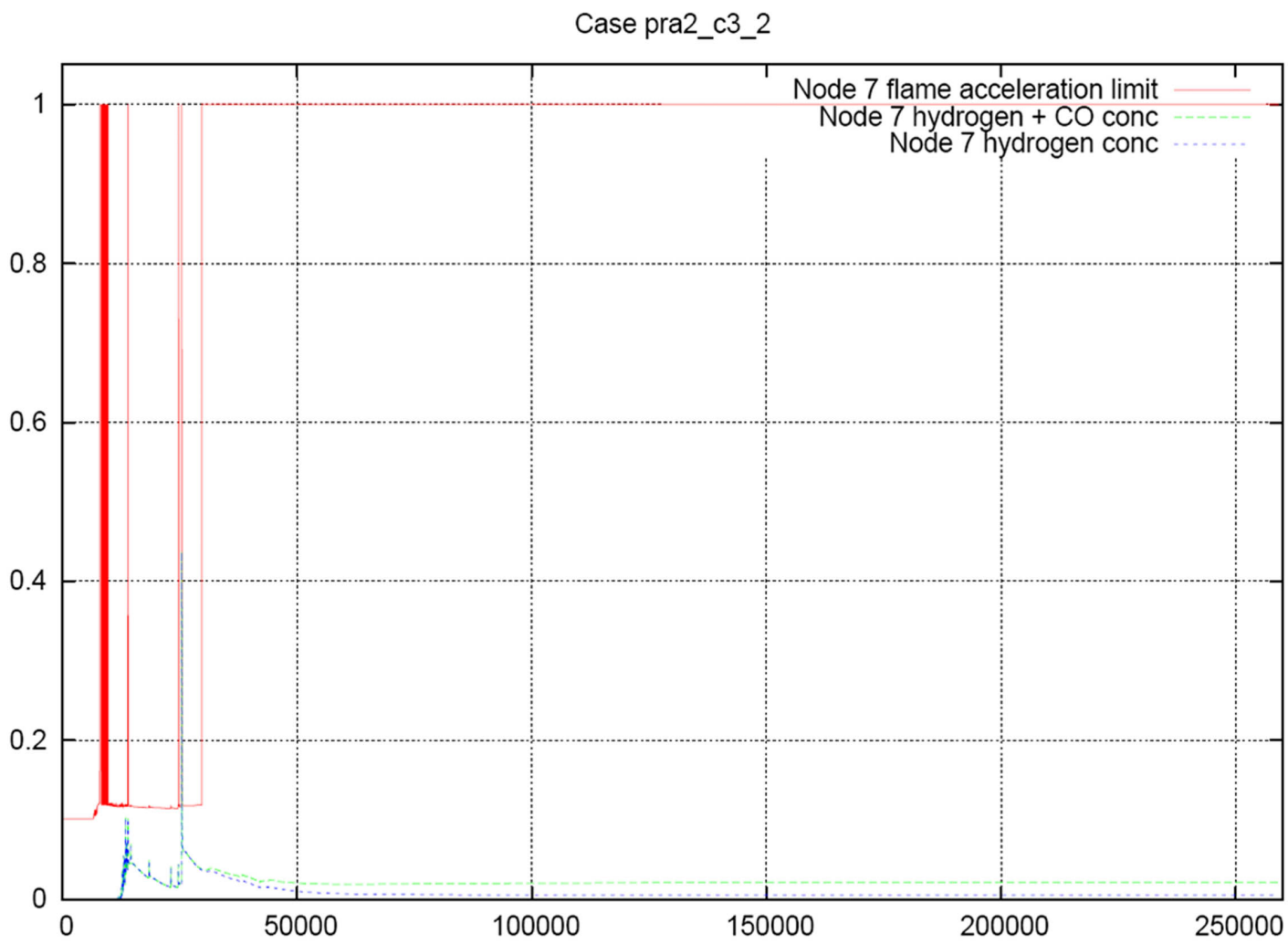

Figure A 191: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_2, containment node 7)

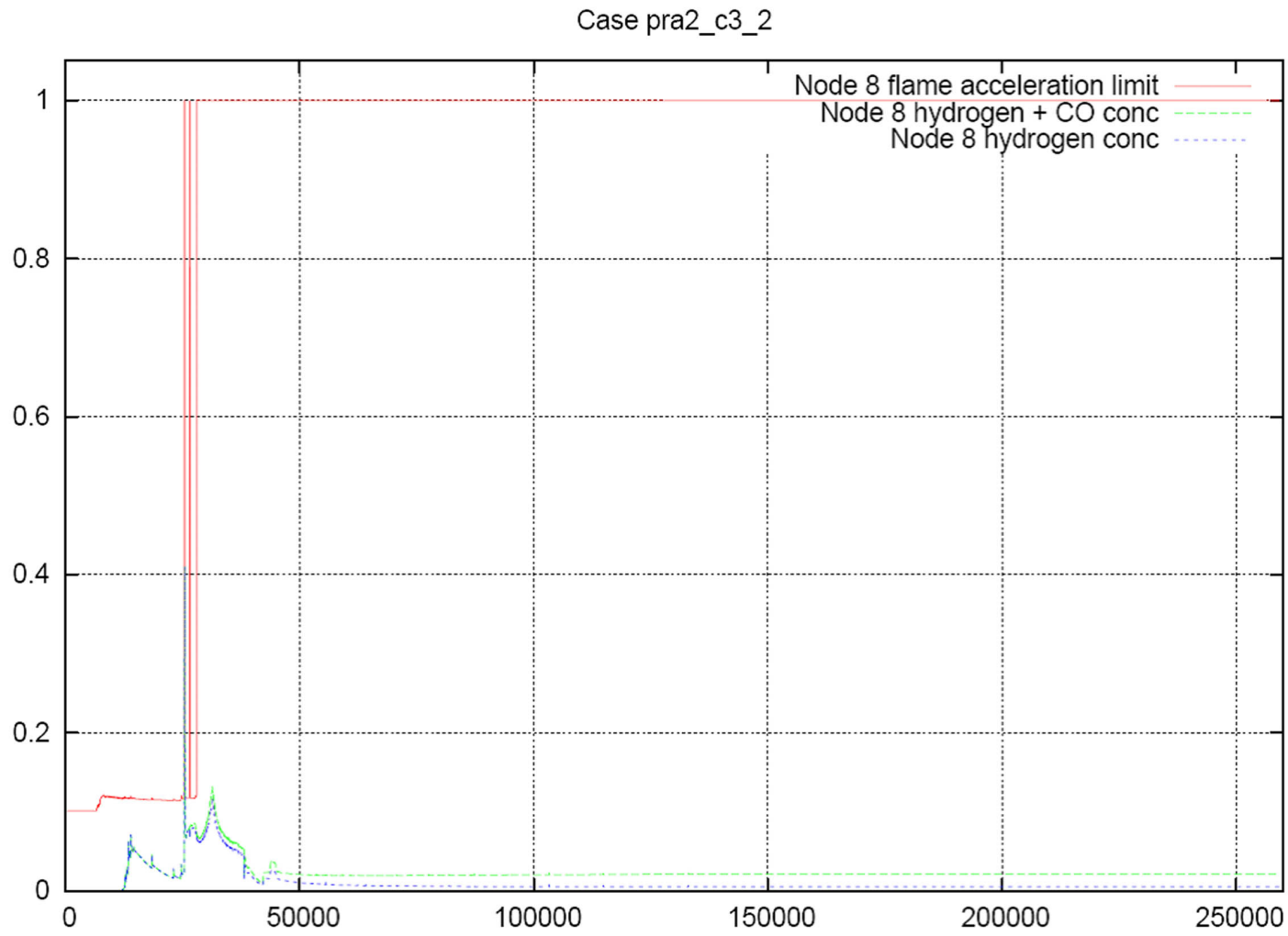

Figure A 192: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_2, containment node 8)

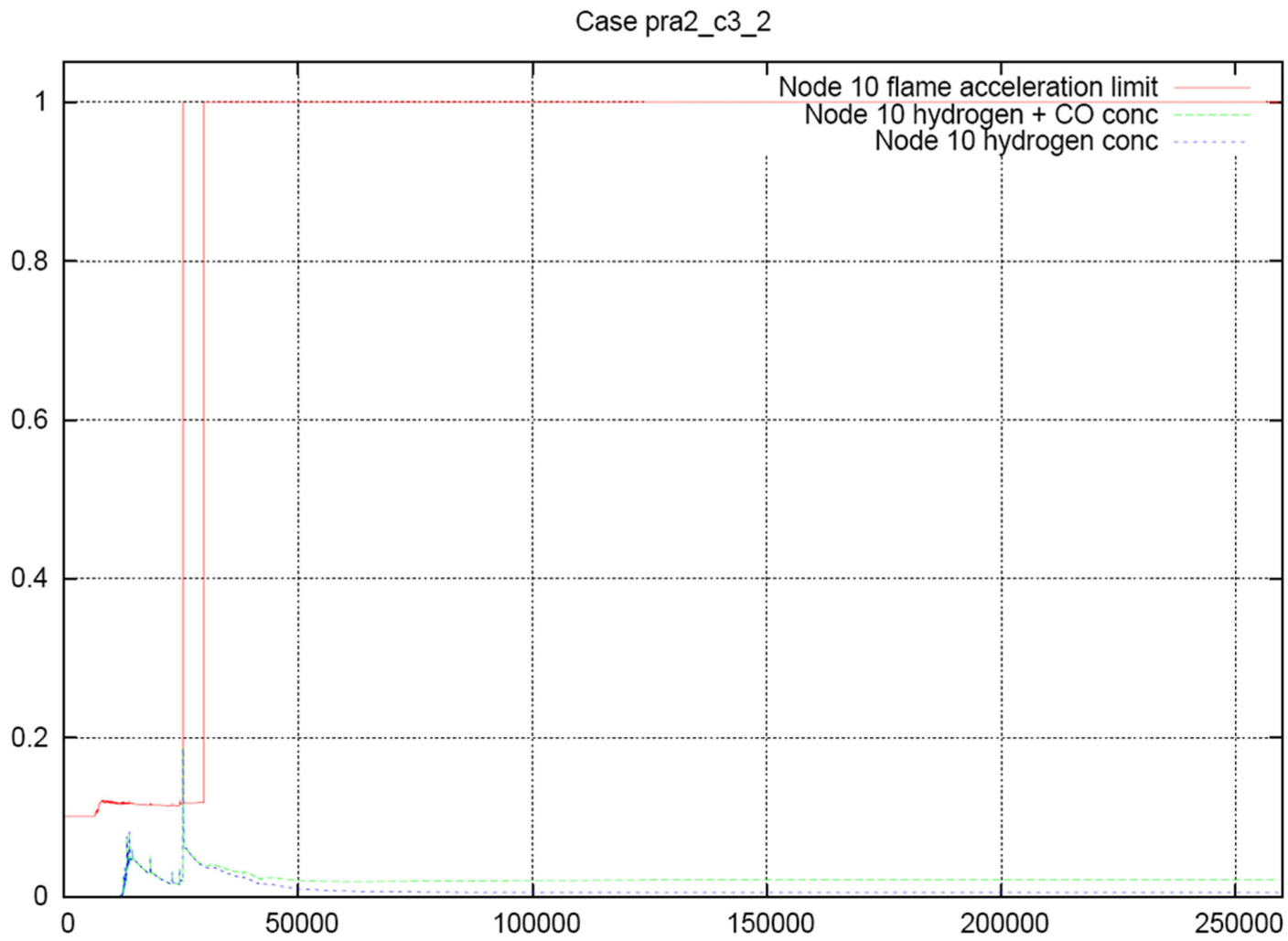

Figure A 193: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_2, containment node 10)

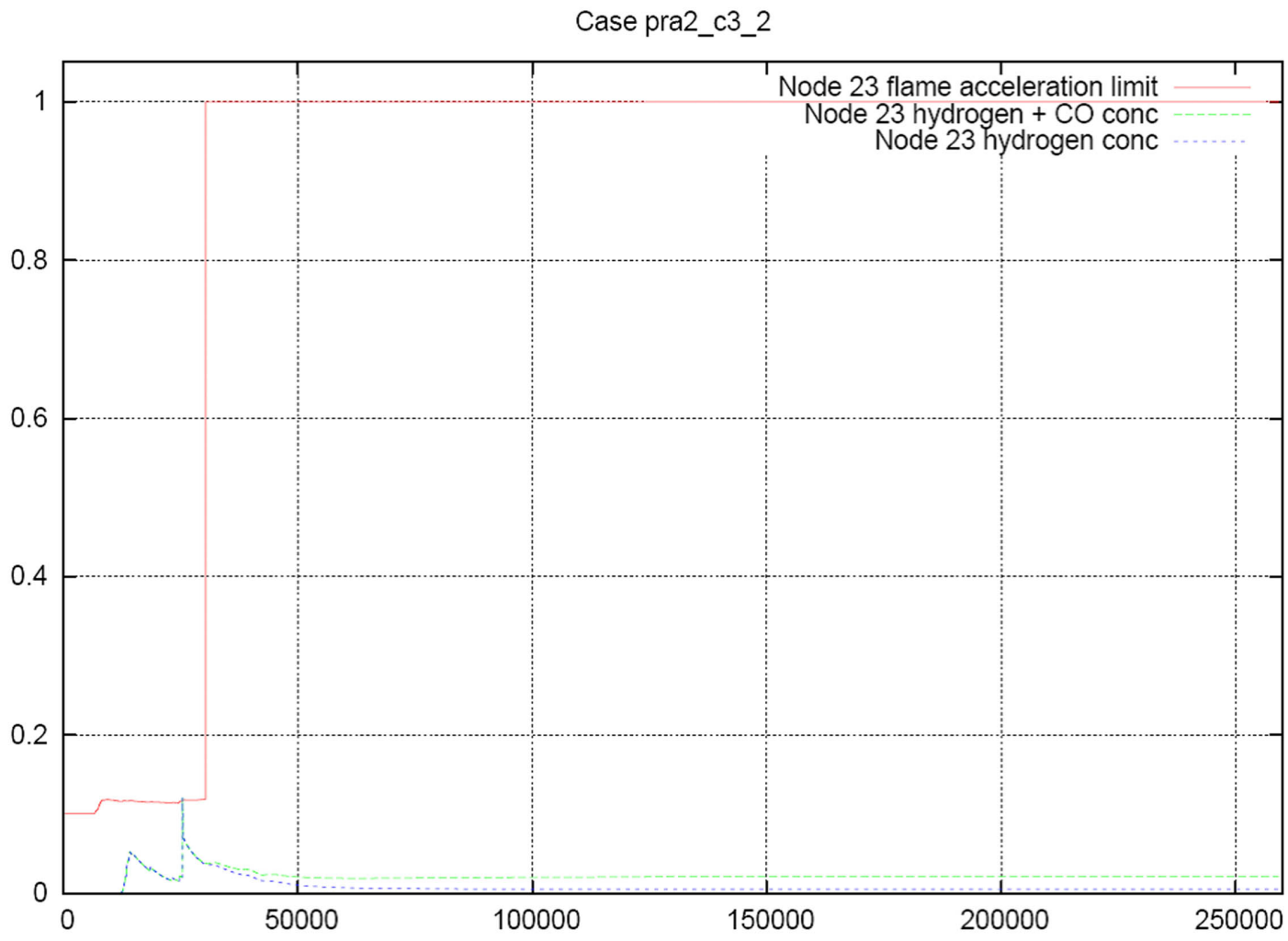

Figure A 194: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_2, containment node 23)

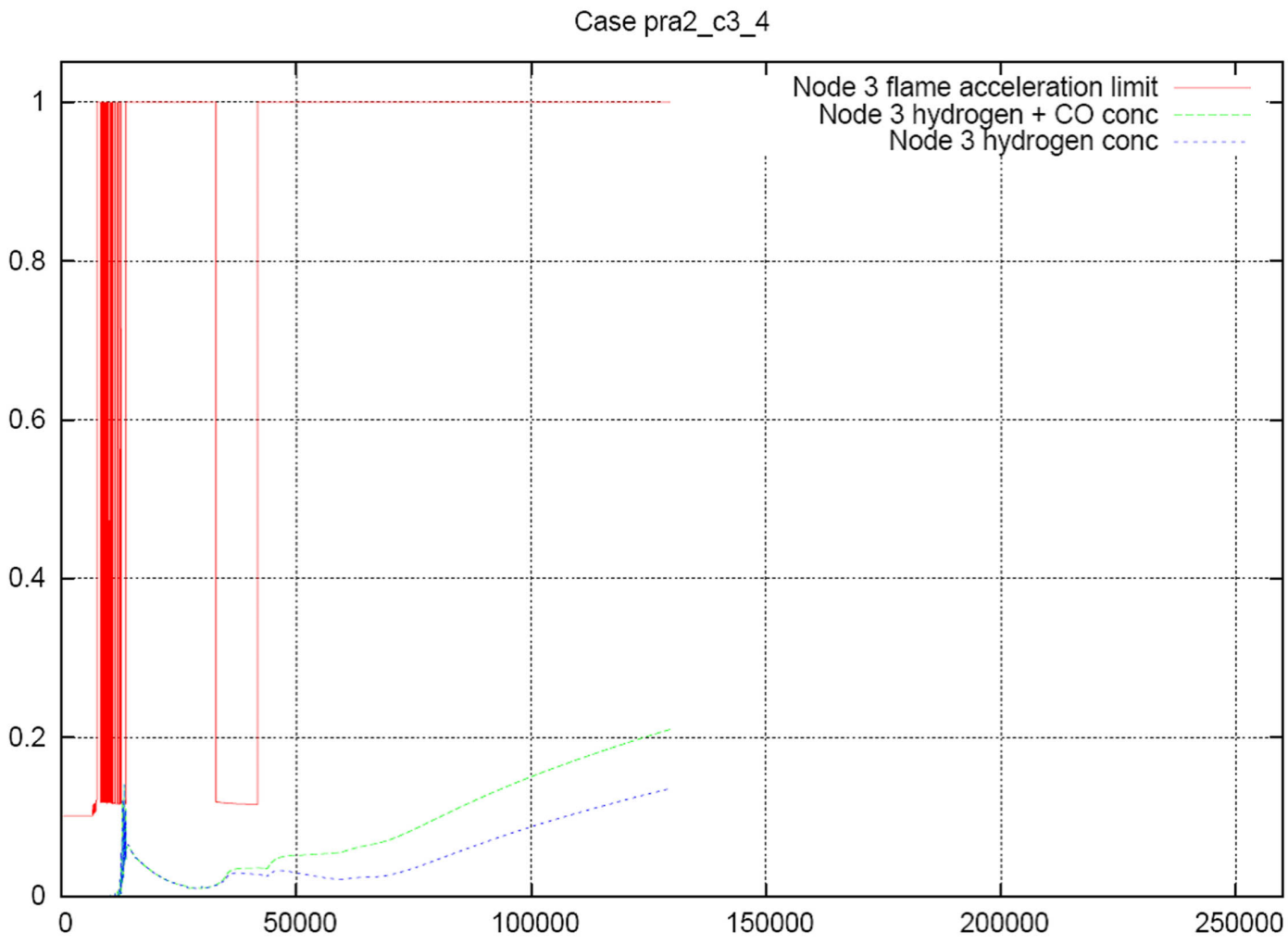

Figure A 195: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_4, containment node 3)

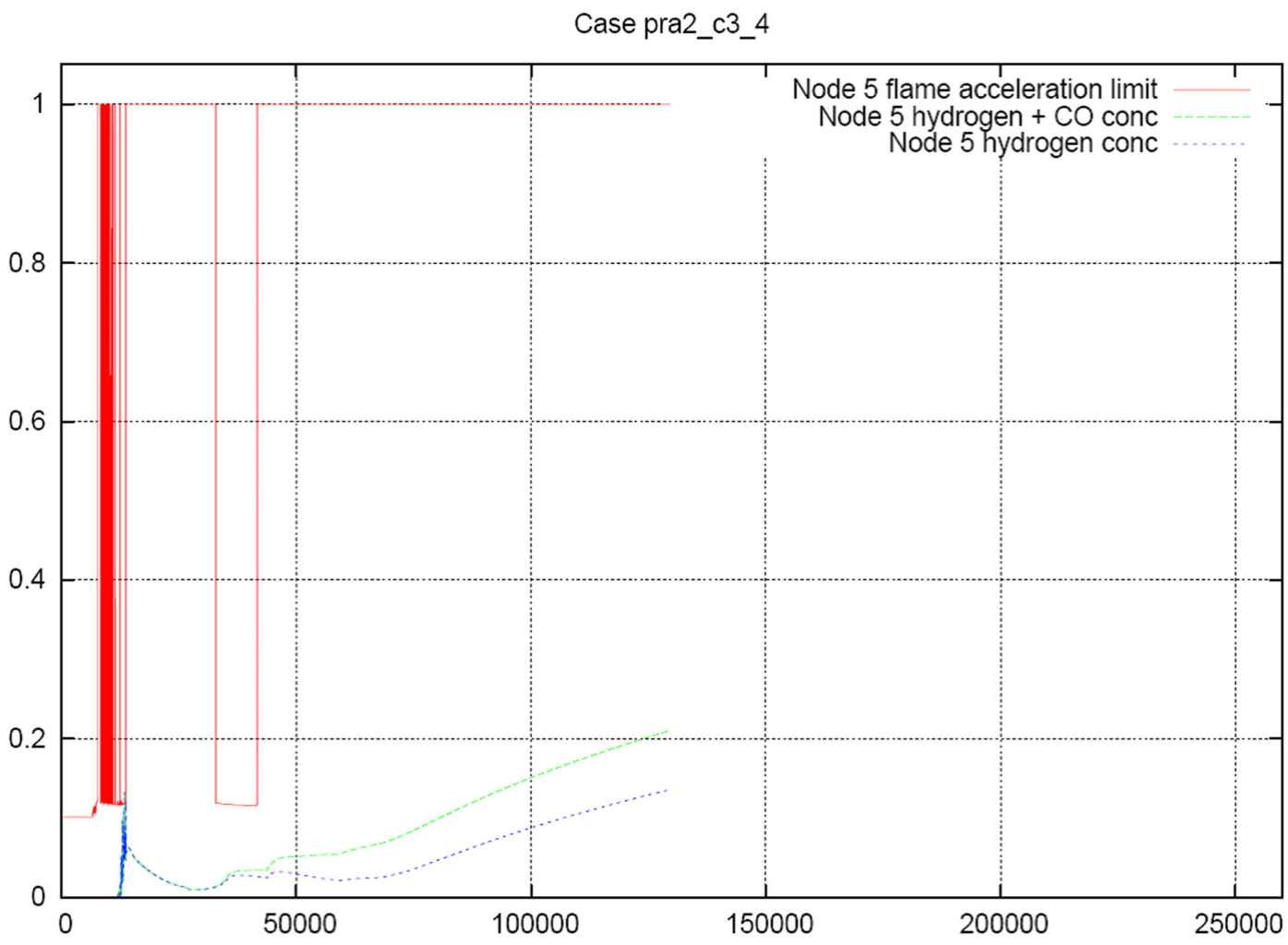

Figure A 196: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_4, containment node 5)

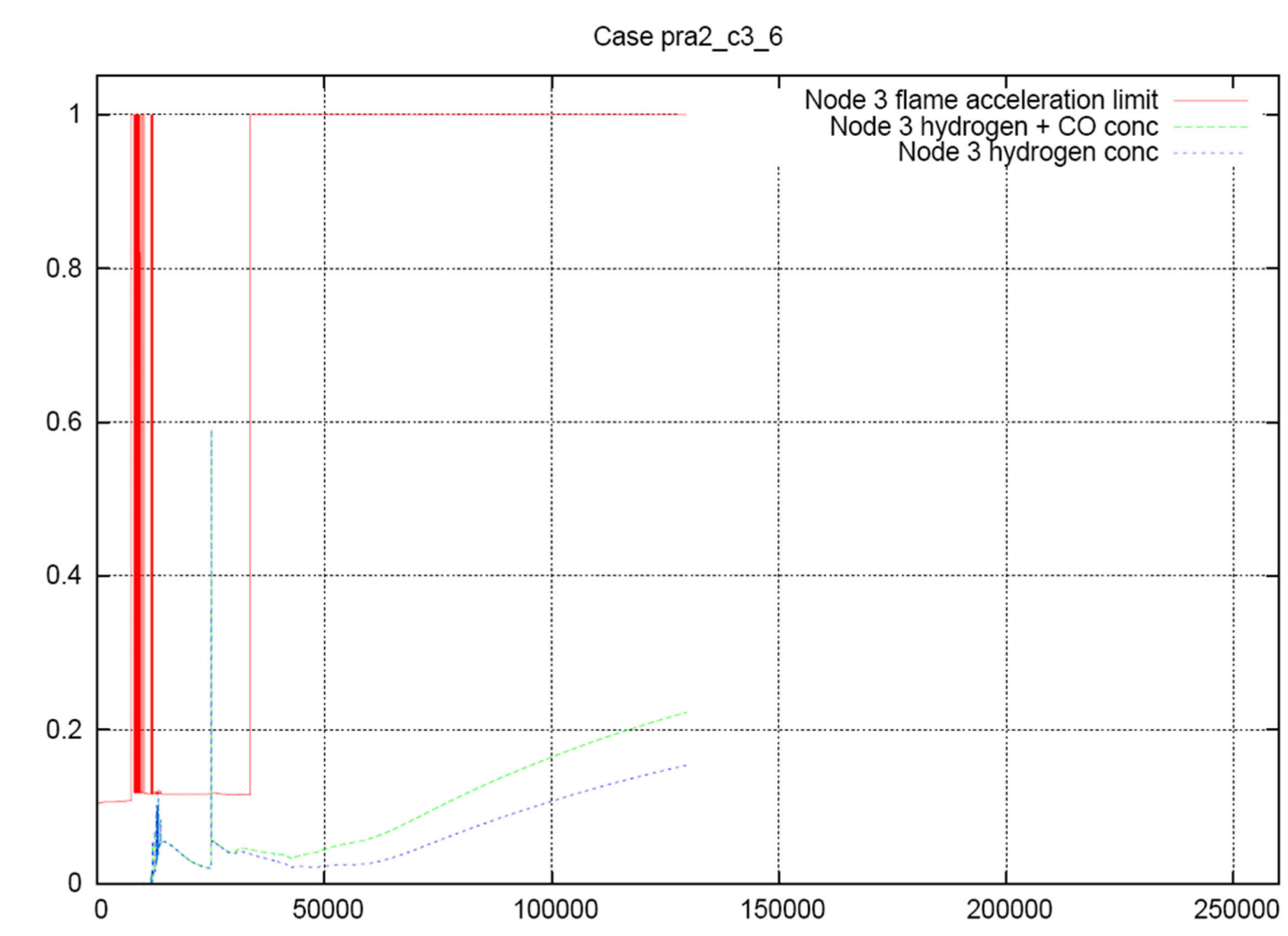

Figure A 197: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_6, containment node 3)

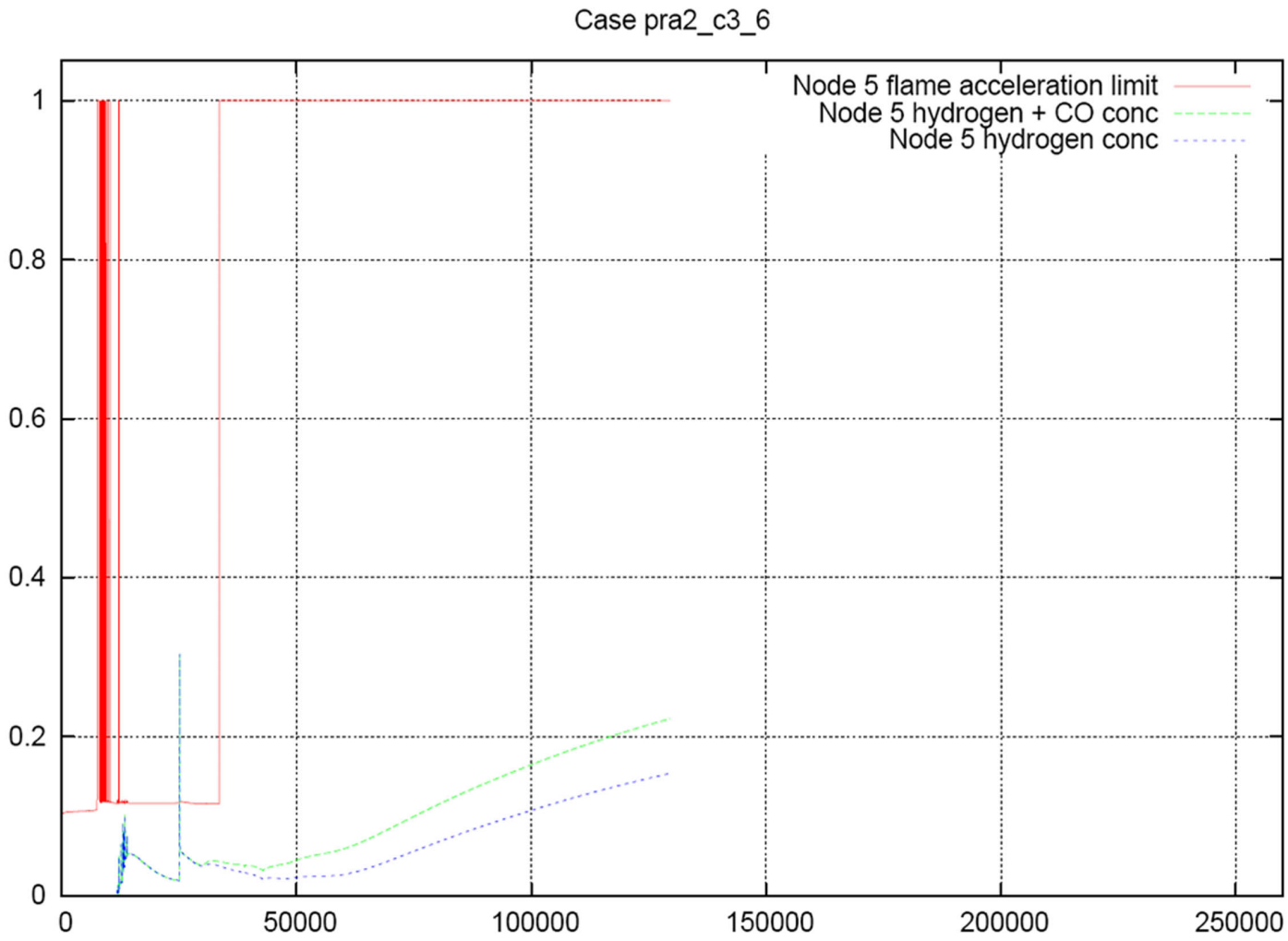

Figure A 198: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_6, containment node 5)

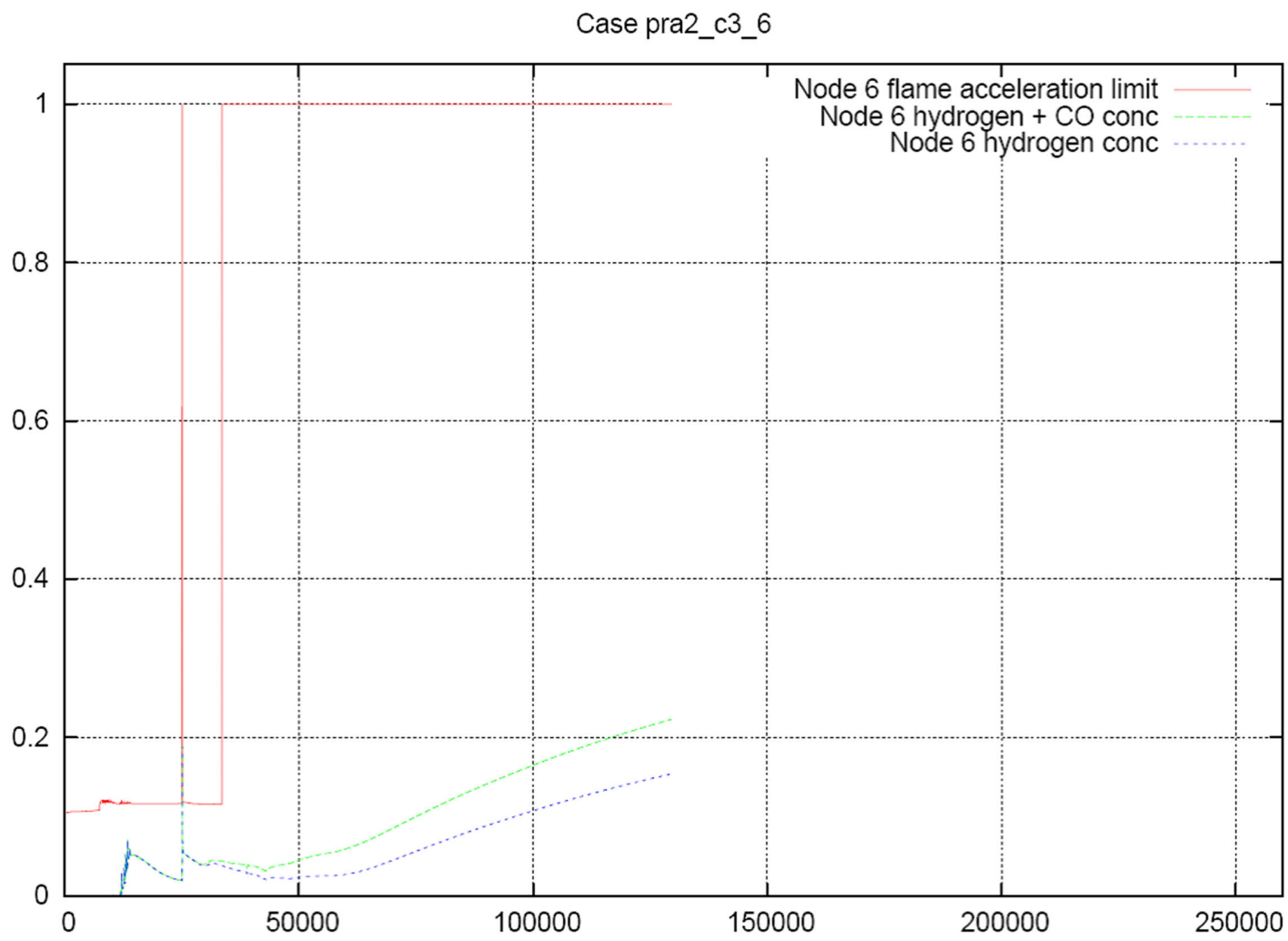

Figure A 199: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_6, containment node 6)

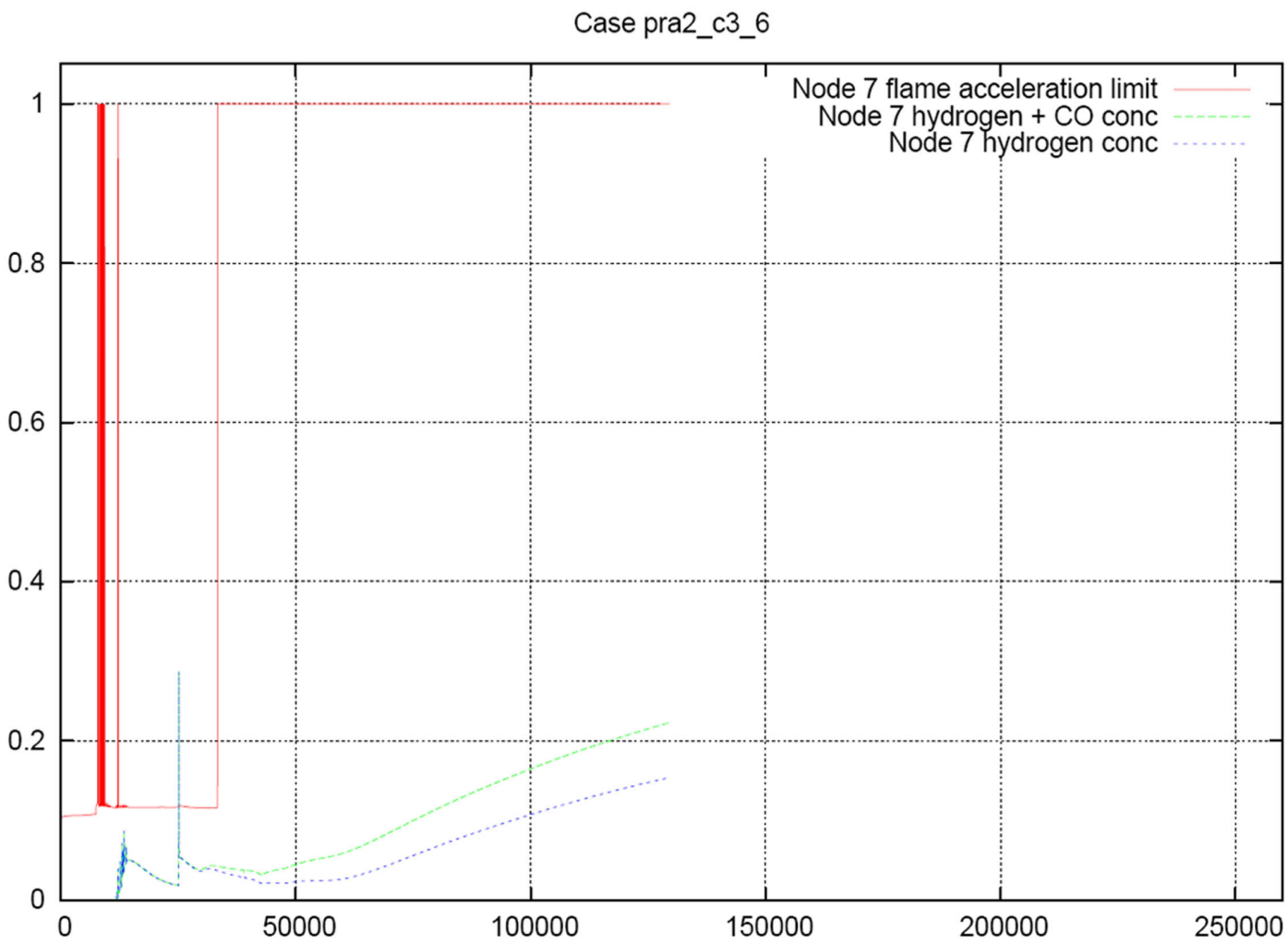

Figure A 200: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_6, containment node 7)

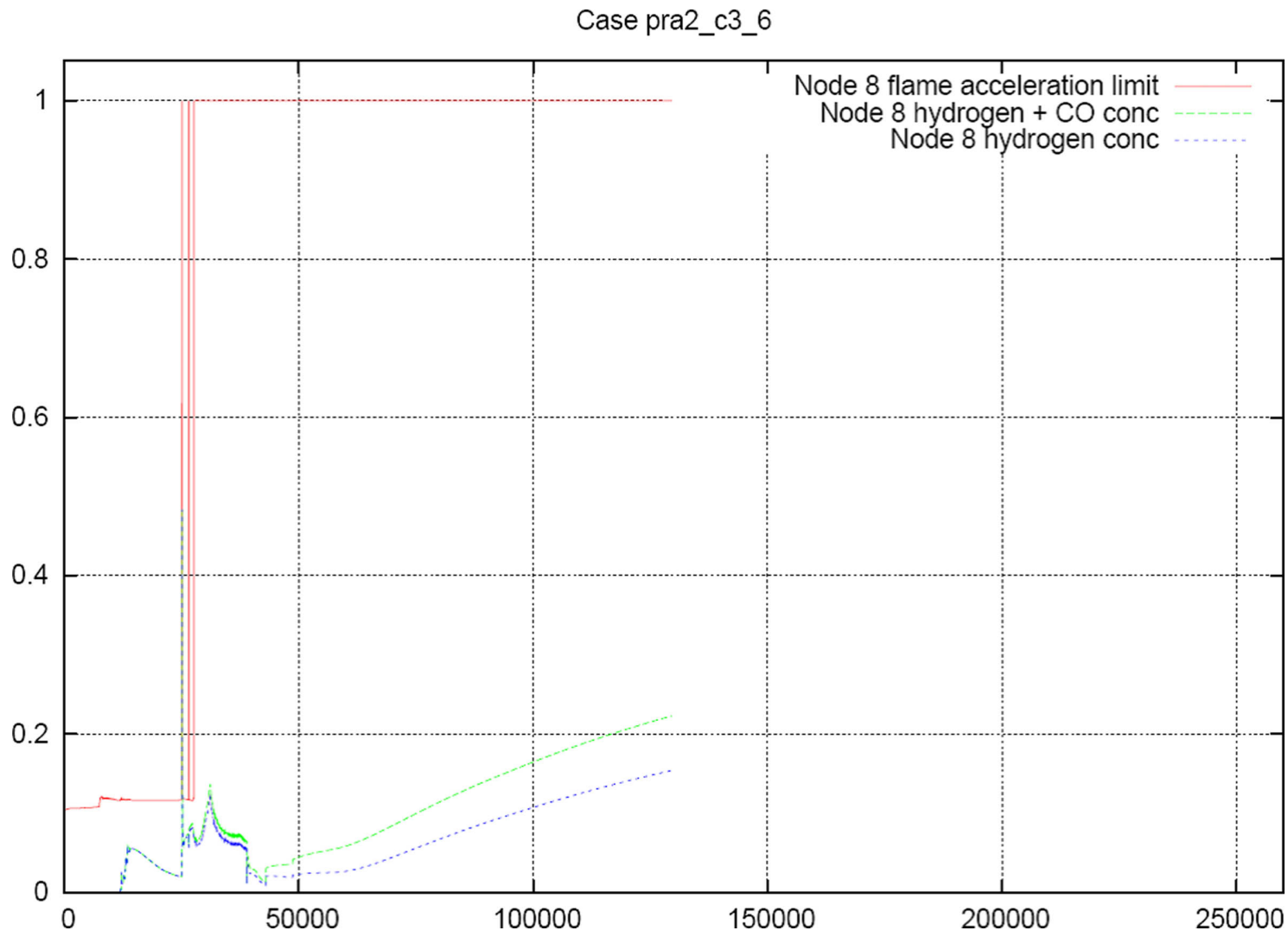

Figure A 201: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_6, containment node 8)

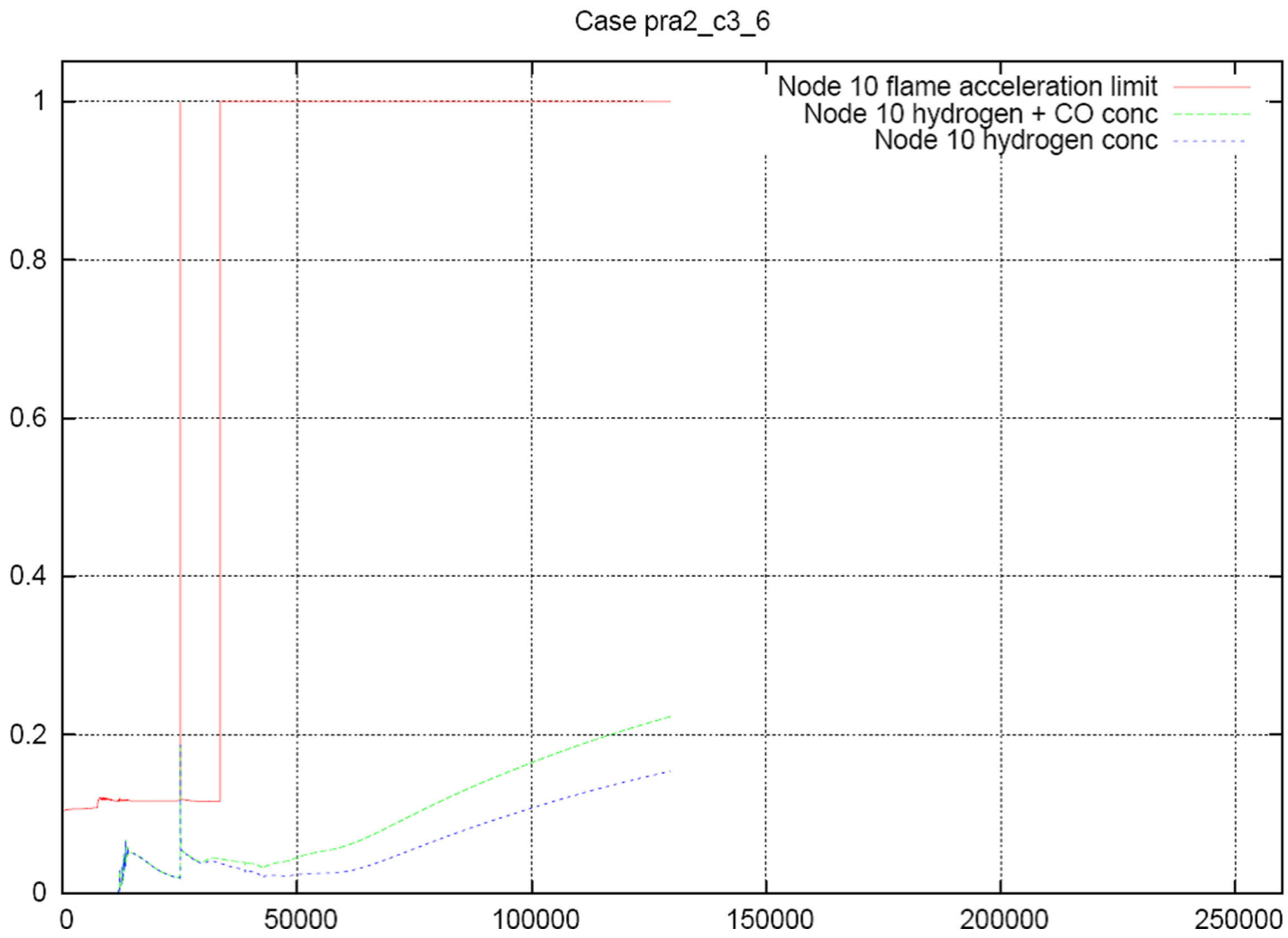

Figure A 202: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_6, containment node 10)

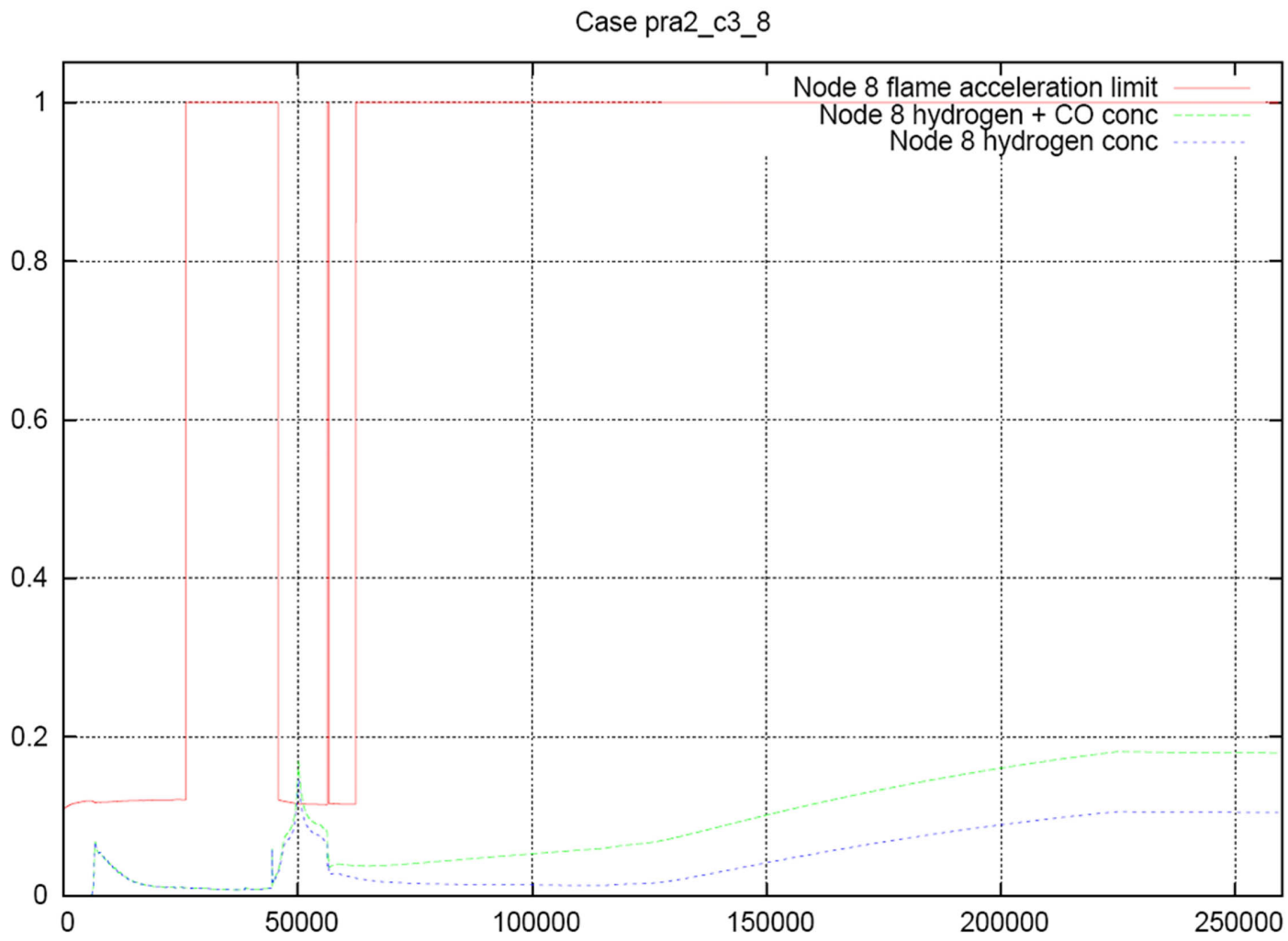

Figure A 203: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_8, containment node 8)

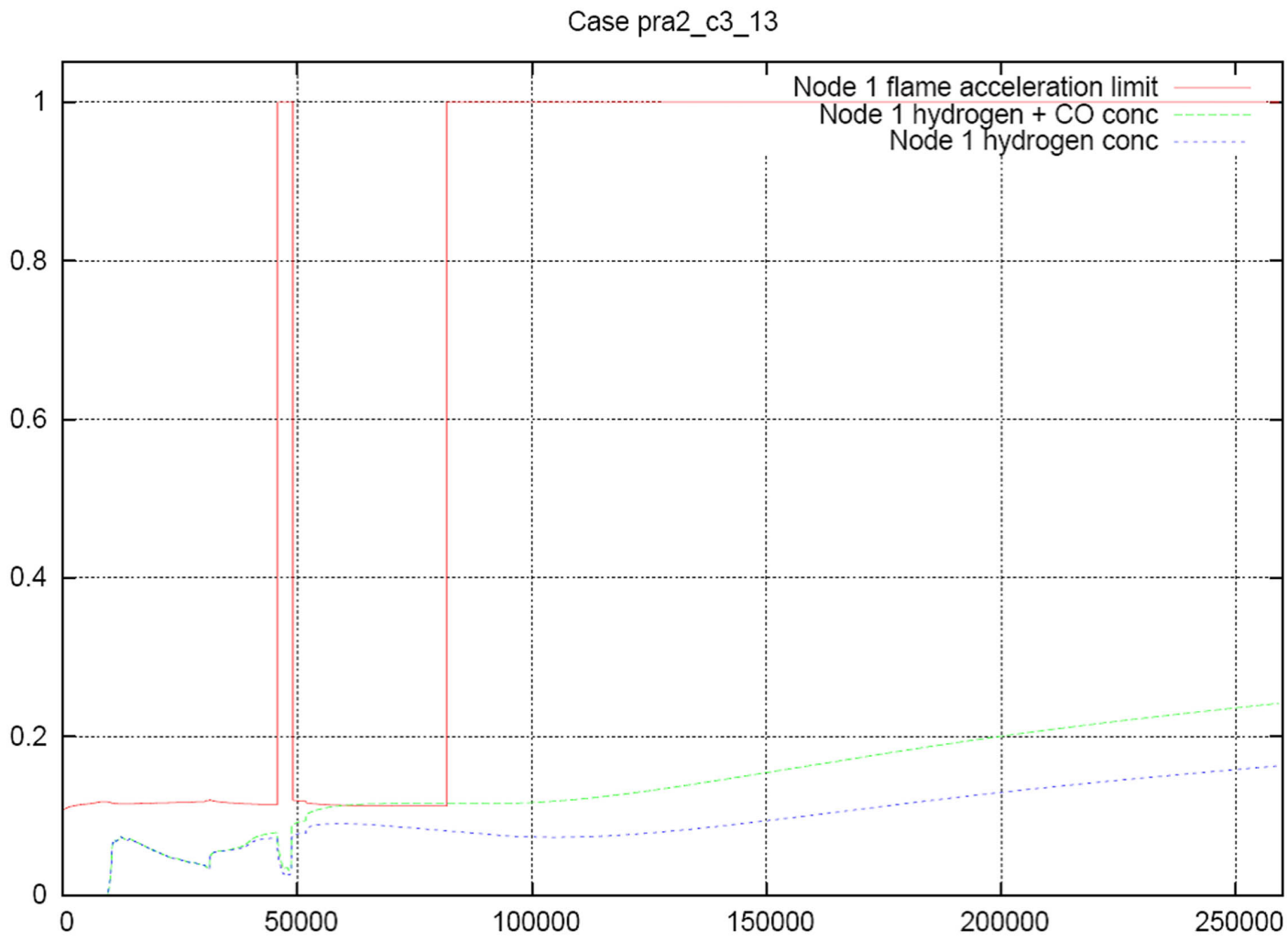

Figure A 204: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_13, containment node 1)

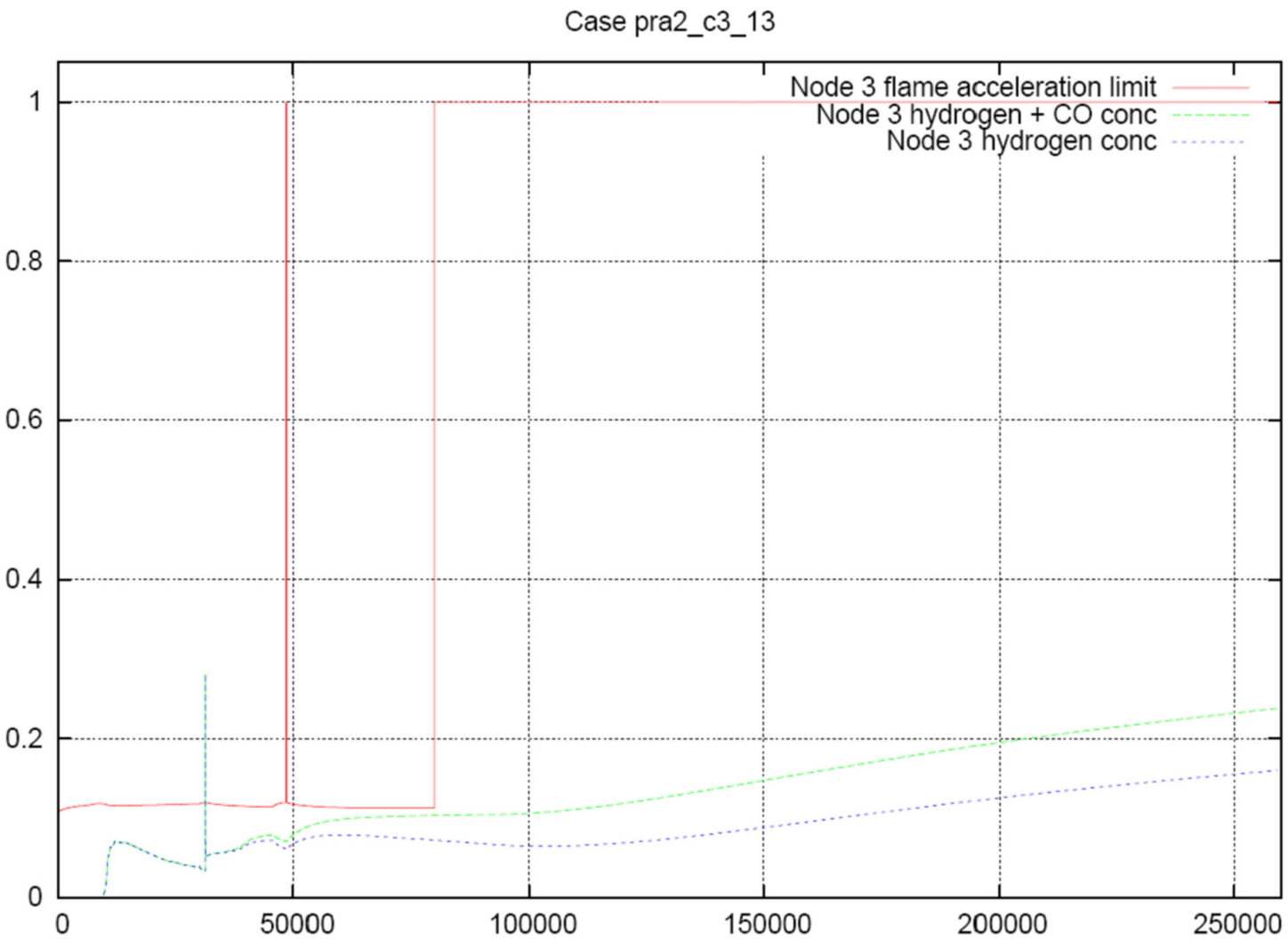

Figure A 205: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_13, containment node 3)

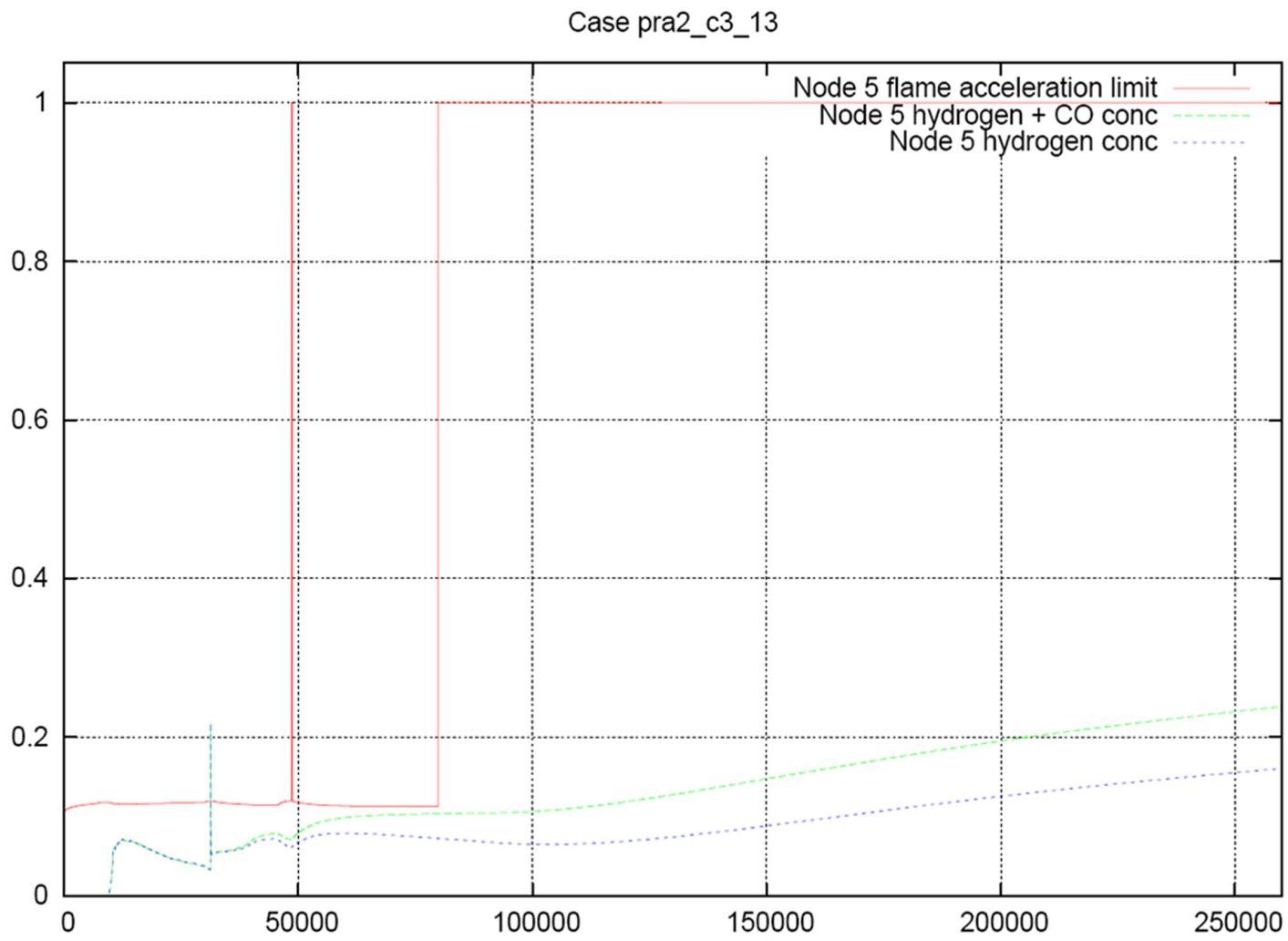

Figure A 206: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_13, containment node 5)

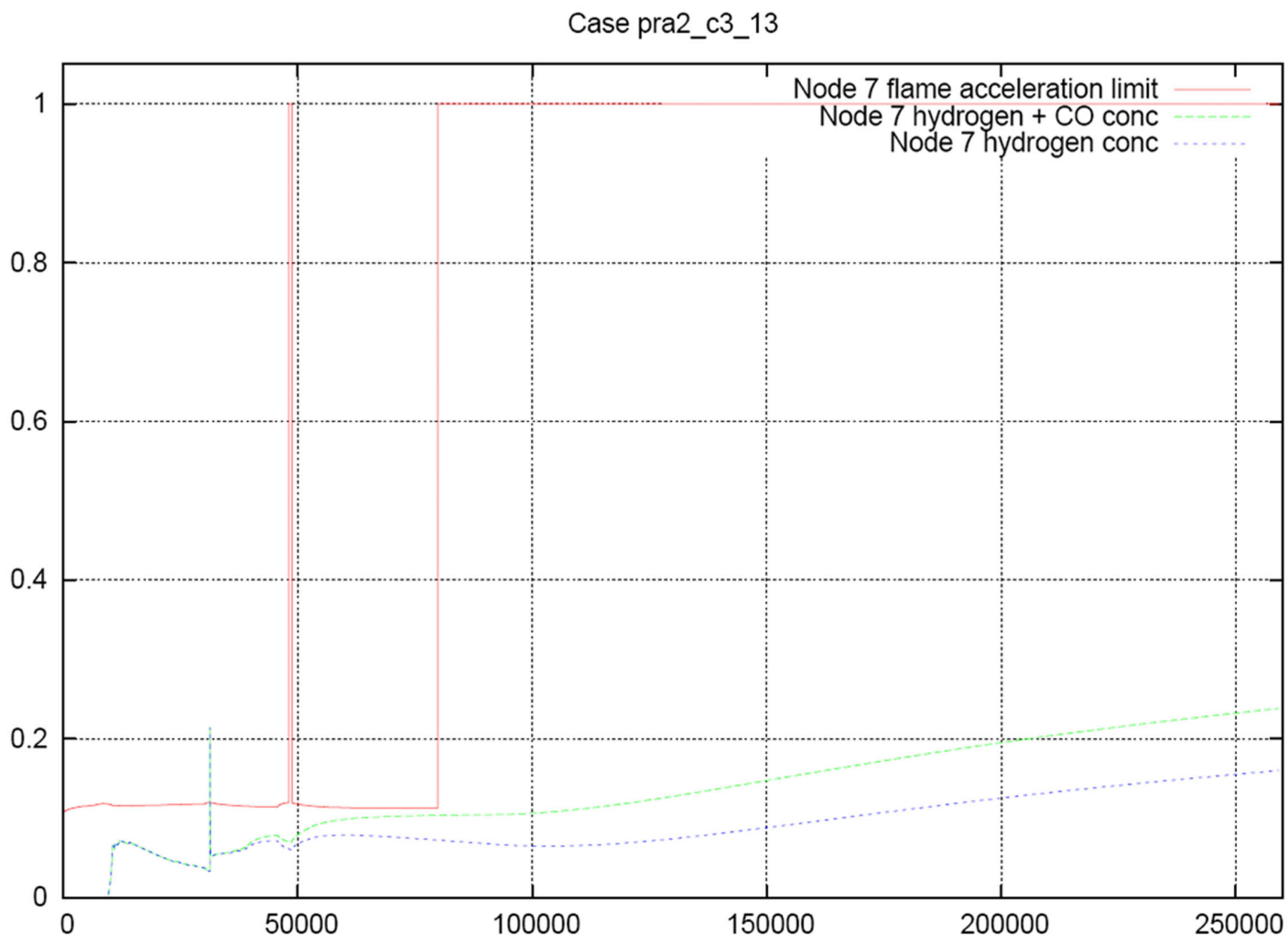

Figure A 207: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_13, containment node 7)

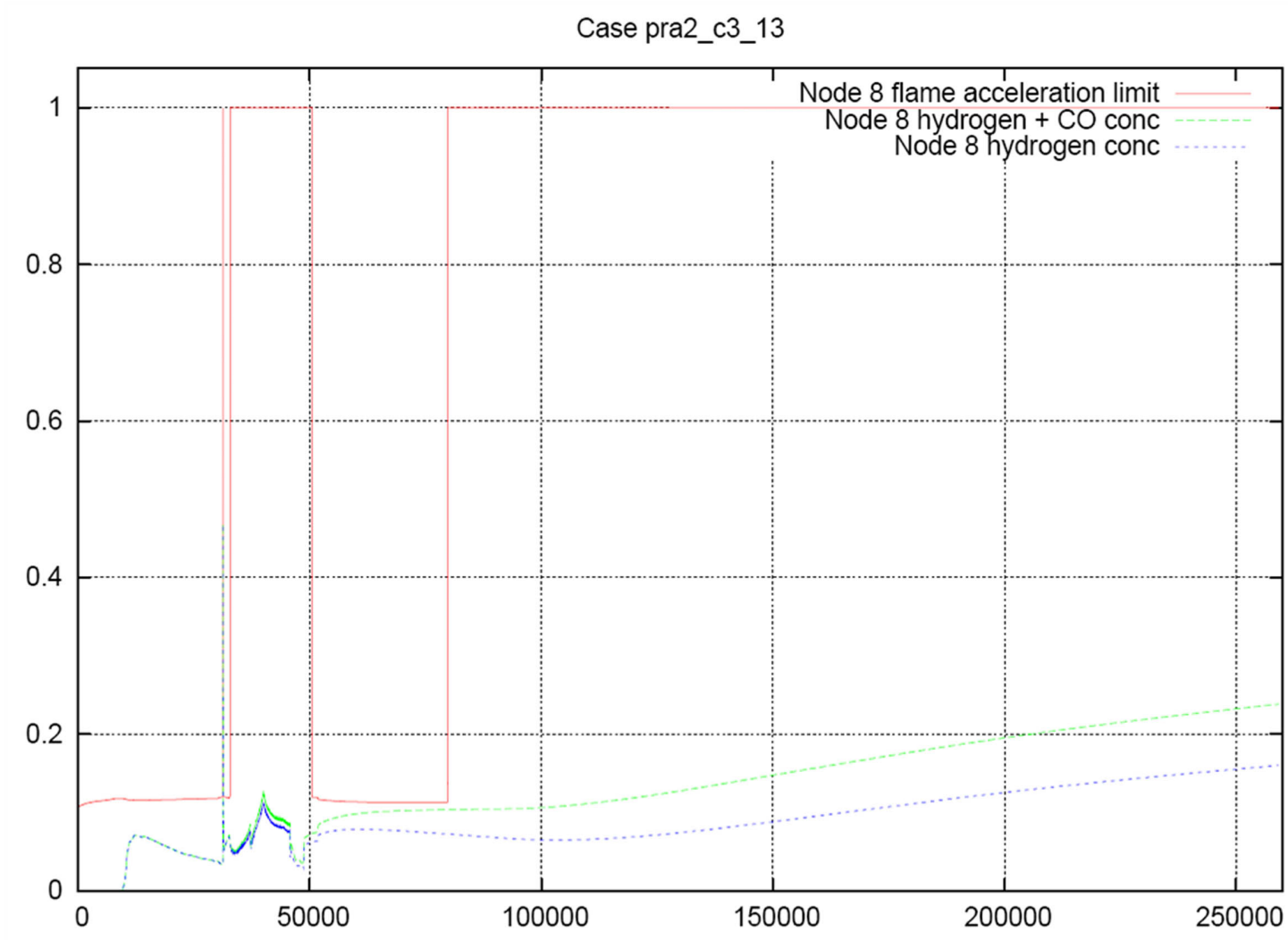

Figure A 208: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_13, containment node 8)

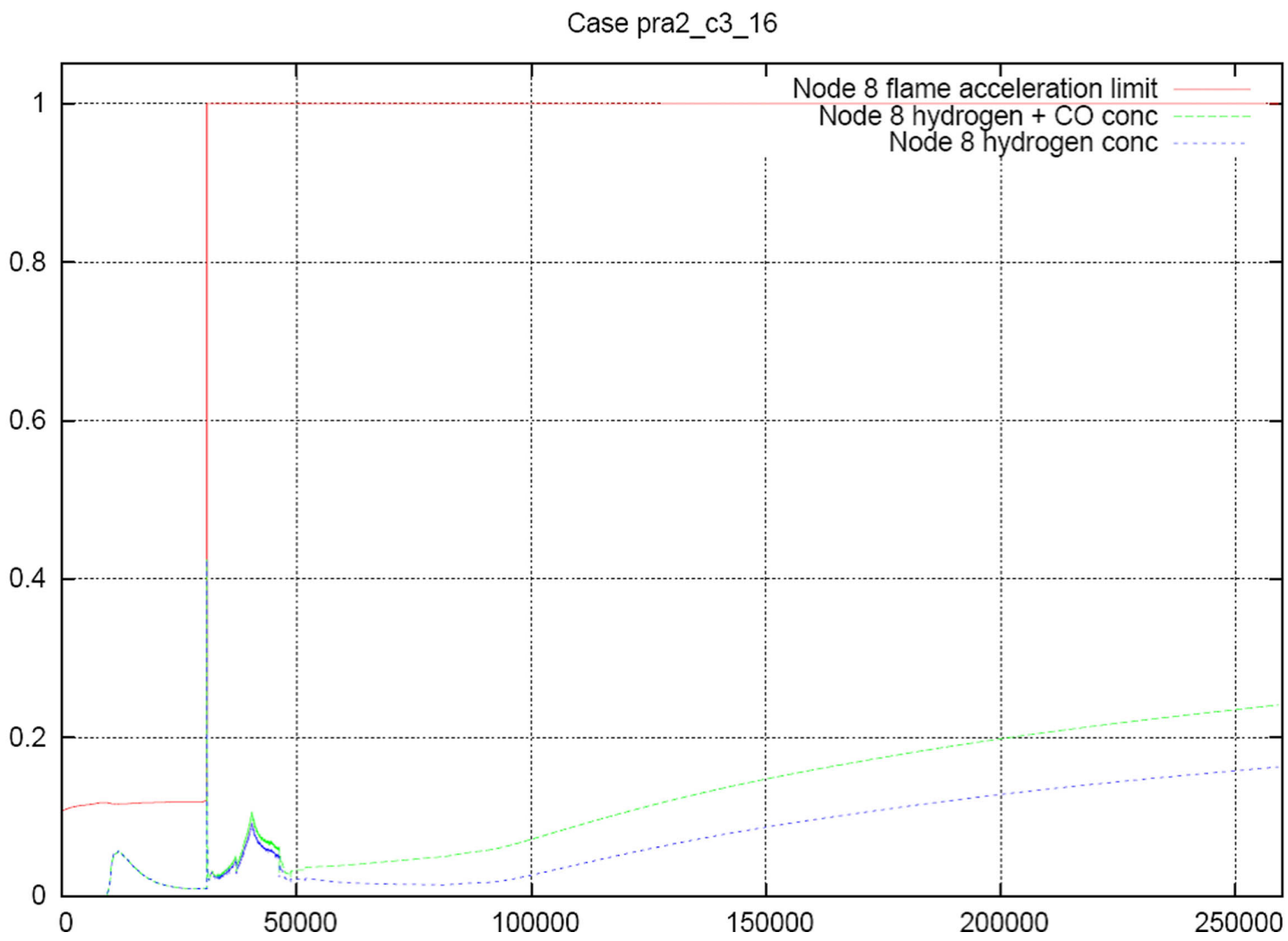

Figure A 209: Hydrogen and hydrogen + carbon monoxide concentrations (dimensionless) versus time (seconds) cross-plotted with calculated hydrogen concentration limit for flame acceleration (case c3_16, containment node 8)

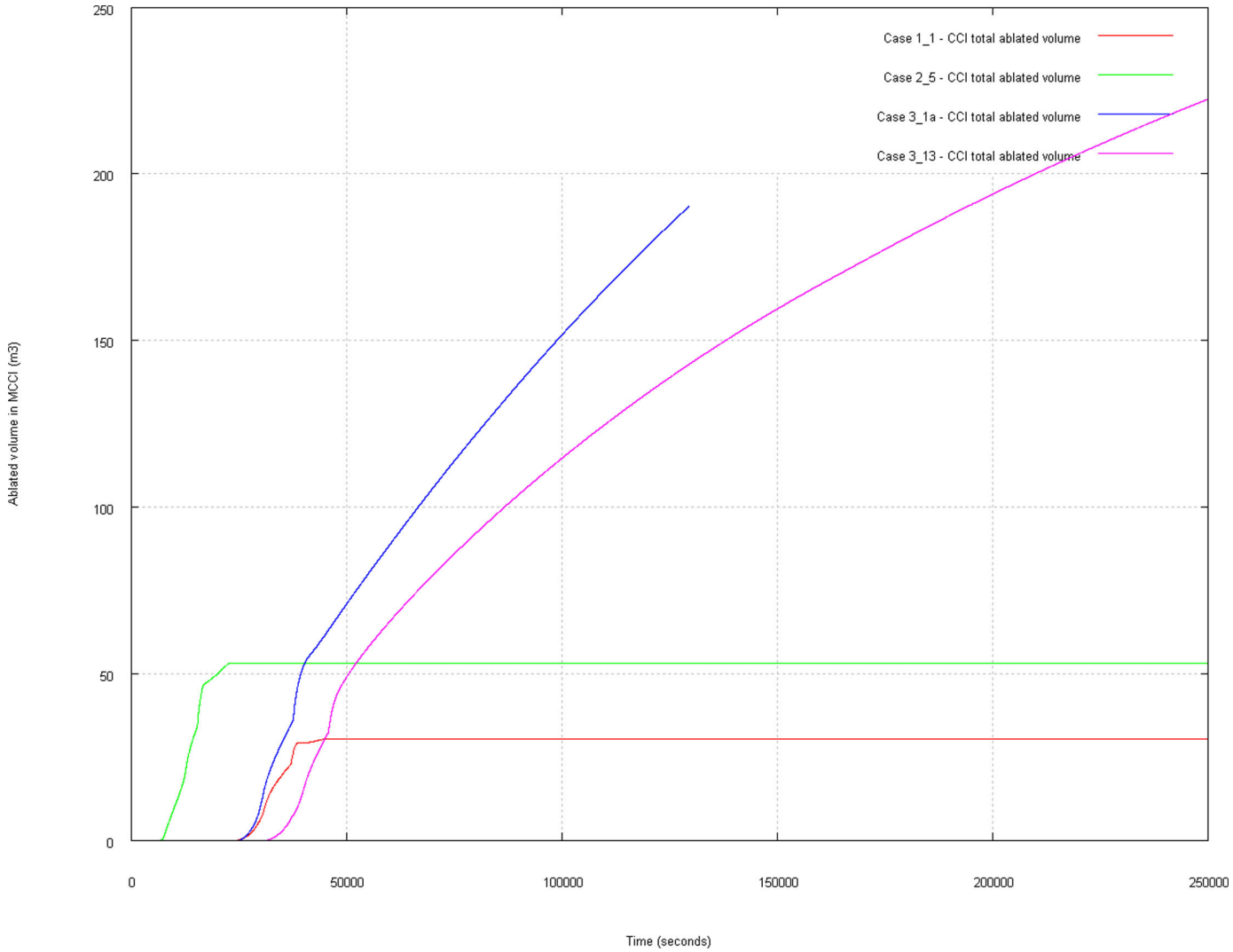

Figure A 210: Ablated concrete volume in cases 1_1 (SBO), 2_5 (Large LOCA,passive SAHRS OK, no active SAHRS), 3_1a (no passive SAHRS or active SAHRS) and 3_13 (no passive SAHRS, active SAHRS at 5 bar)

U.S. EPR Final Safety Analysis Report Markups

Table 19.1-26—U.S. EPR Core Damage End States Contributions –Level 2 Internal Events

CDES	LRF [1/yr]	Contribution (Total)
ATI	1.2E-08	57%
SG	2.1E-09	10%
TP~~1~~	1.7E-09	8%
SG2	1.1E-09	5%
SG1	8.9E-10	4%
TR1	7.3E-10	3%
SG3	4.8E-10	2%
TP1	4.2E-10	2%
SL	4.0E-10	2%
IS	2.7E-10	1%
SPD	2.3E-10	1%
RV	1.7E-10	1%
TR1D	1.6E-10	1%
SL1D	1.3E-10	1%
SP1	1.2E-10	1%
Total	2.2E-08	100%