Linearization comparison:

* Time changed from 60 seconds to 10 seconds
* Linearization time down from 15-20 minutes to 4.5-5 minutes

Compare Gains

Proportional gain values

|  |  |  |
| --- | --- | --- |
| Time step :60 | Time step :10 | Latest |
| -0.0214  -0.0129  -0.0100  -0.0085  -0.0075  -0.0069  -0.0063  -0.0059  -0.0055  -0.0052  -0.0050  -0.0047  -0.0045  -0.0044  -0.0042 | -0.0205  -0.0138  -0.0104  -0.0088  -0.0078  -0.0070  -0.0065  -0.0060  -0.0056  -0.0053  -0.0051  -0.0048  -0.0046  -0.0044  -0.0043 | -0.0226  -0.0137  -0.0105  -0.0090  -0.0080  -0.0073  -0.0067  -0.0062  -0.0059  -0.0055  -0.0053  -0.0050  -0.0048  -0.0046  -0.0044 |

Integral gain values

|  |  |  |
| --- | --- | --- |
| Time step :60 | Time step :10 | Latest |
| -0.0092  -0.0055  -0.0043  -0.0036  -0.0032  -0.0029  -0.0027  -0.0025  -0.0024  -0.0022  -0.0021  -0.0020  -0.0019  -0.0019  -0.0018 | -0.0088  -0.0059  -0.0045  -0.0038  -0.0033  -0.0030  -0.0028  -0.0026  -0.0024  -0.0023  -0.0022  -0.0021  -0.0020  -0.0019  -0.0018 | -0.0097  -0.0059  -0.0045  -0.0039  -0.0034  -0.0031  -0.0029  -0.0027  -0.0025  -0.0024  -0.0023  -0.0021  -0.0021  -0.0020  -0.0019 |

A close up of text on a white background

Description automatically generated

A screenshot of a cell phone

Description automatically generated

A close up of a map

Description automatically generated