**>> main\_taylor\_fastDD\_index\_check**

**Taylor PFB-1x:**

**Taylor-PFB-1x N= 2, RMS error=0.00, min, max, mean, std error= 0.00 0.00 0.00 0.00, pct Q error=0**

**Taylor-PFB-1x N= 4, RMS error=0.17, min, max, mean, std error= -0.33 0.33 0.00 0.17, pct Q error=0**

**Taylor-PFB-1x N= 8, RMS error=0.23, min, max, mean, std error= -0.43 0.43 0.00 0.23, pct Q error=0**

**Taylor-PFB-1x N= 16, RMS error=0.28, min, max, mean, std error= -0.67 0.67 -0.00 0.28, pct Q error=5**

**Taylor-PFB-1x N= 32, RMS error=0.32, min, max, mean, std error= -0.77 0.77 0.00 0.32, pct Q error=8**

**Taylor-PFB-1x N= 64, RMS error=0.35, min, max, mean, std error= -1.00 1.00 0.00 0.35, pct Q error=15**

**Taylor-PFB-1x N= 128, RMS error=0.38, min, max, mean, std error= -1.11 1.11 -0.00 0.38, pct Q error=18**

**Taylor-PFB-1x N= 256, RMS error=0.41, min, max, mean, std error= -1.33 1.33 -0.00 0.41, pct Q error=22**

**Taylor-PFB-1x N= 512, RMS error=0.43, min, max, mean, std error= -1.44 1.44 0.00 0.43, pct Q error=25**

**Taylor-PFB-1x N= 1024, RMS error=0.46, min, max, mean, std error= -1.67 1.67 -0.00 0.46, pct Q error=28**

**Taylor-PFB-1x N= 4, RMS error=0.17, min, max, mean, std error= -0.33 0.33 0.00 0.17, pct Q error=0**

**Taylor-PFB-1x N= 8, RMS error=0.23, min, max, mean, std error= -0.43 0.43 0.00 0.23, pct Q error=0**

**Taylor-PFB-1x N= 16, RMS error=0.28, min, max, mean, std error= -0.67 0.67 -0.00 0.28, pct Q error=5**

**Taylor-PFB-1x N= 32, RMS error=0.32, min, max, mean, std error= -0.77 0.77 0.00 0.32, pct Q error=8**

**Taylor-PFB-1x N= 64, RMS error=0.35, min, max, mean, std error= -1.00 1.00 0.00 0.35, pct Q error=15**

**Taylor-PFB-1x N= 128, RMS error=0.38, min, max, mean, std error= -1.11 1.11 -0.00 0.38, pct Q error=18**

**Taylor-PFB-1x N= 256, RMS error=0.41, min, max, mean, std error= -1.33 1.33 -0.00 0.41, pct Q error=22**

**Taylor-PFB-1x N= 512, RMS error=0.43, min, max, mean, std error= -1.44 1.44 0.00 0.43, pct Q error=25**

**Taylor-PFB-1x N= 1024, RMS error=0.46, min, max, mean, std error= -1.67 1.67 -0.00 0.46, pct Q error=28**

**Taylor-PFB-1x N= 8, RMS error=0.23, min, max, mean, std error= -0.43 0.43 0.00 0.23, pct Q error=0**

**Taylor-PFB-1x N= 16, RMS error=0.28, min, max, mean, std error= -0.67 0.67 -0.00 0.28, pct Q error=5**

**Taylor-PFB-1x N= 32, RMS error=0.32, min, max, mean, std error= -0.77 0.77 0.00 0.32, pct Q error=8**

**Taylor-PFB-1x N= 64, RMS error=0.35, min, max, mean, std error= -1.00 1.00 0.00 0.35, pct Q error=15**

**Taylor-PFB-1x N= 128, RMS error=0.38, min, max, mean, std error= -1.11 1.11 -0.00 0.38, pct Q error=18**

**Taylor-PFB-1x N= 256, RMS error=0.41, min, max, mean, std error= -1.33 1.33 -0.00 0.41, pct Q error=22**

**Taylor-PFB-1x N= 512, RMS error=0.43, min, max, mean, std error= -1.44 1.44 0.00 0.43, pct Q error=25**

**Taylor-PFB-1x N= 1024, RMS error=0.46, min, max, mean, std error= -1.67 1.67 -0.00 0.46, pct Q error=28**

**Taylor-PFB-1x N= 16, RMS error=0.26, min, max, mean, std error= -0.47 0.47 -0.00 0.26, pct Q error=0**

**Taylor-PFB-1x N= 32, RMS error=0.30, min, max, mean, std error= -0.77 0.77 0.00 0.30, pct Q error=6**

**Taylor-PFB-1x N= 64, RMS error=0.34, min, max, mean, std error= -0.92 0.92 0.00 0.34, pct Q error=13**

**Taylor-PFB-1x N= 128, RMS error=0.37, min, max, mean, std error= -1.11 1.11 -0.00 0.37, pct Q error=17**

**Taylor-PFB-1x N= 256, RMS error=0.40, min, max, mean, std error= -1.25 1.25 -0.00 0.40, pct Q error=21**

**Taylor-PFB-1x N= 512, RMS error=0.42, min, max, mean, std error= -1.44 1.44 0.00 0.42, pct Q error=24**

**Taylor-PFB-1x N= 1024, RMS error=0.45, min, max, mean, std error= -1.58 1.58 -0.00 0.45, pct Q error=27**

**Taylor-PFB-1x N= 32, RMS error=0.27, min, max, mean, std error= -0.48 0.48 0.00 0.28, pct Q error=0**

**Taylor-PFB-1x N= 64, RMS error=0.32, min, max, mean, std error= -0.86 0.86 0.00 0.32, pct Q error=10**

**Taylor-PFB-1x N= 128, RMS error=0.35, min, max, mean, std error= -1.04 1.04 -0.00 0.35, pct Q error=15**

**Taylor-PFB-1x N= 256, RMS error=0.38, min, max, mean, std error= -1.20 1.20 -0.00 0.38, pct Q error=19**

**Taylor-PFB-1x N= 512, RMS error=0.41, min, max, mean, std error= -1.36 1.36 0.00 0.41, pct Q error=23**

**Taylor-PFB-1x N= 1024, RMS error=0.43, min, max, mean, std error= -1.54 1.54 -0.00 0.43, pct Q error=26**

**fastDD PFB-1x:**

**fastDD-PFB-1x N= 2, RMS error=0.20, min, max, mean, std error= 0.00 0.50 0.08 0.20, pct Q error=0**

**fastDD-PFB-1x N= 4, RMS error=0.19, min, max, mean, std error= -0.29 0.50 0.05 0.19, pct Q error=0**

**fastDD-PFB-1x N= 8, RMS error=0.21, min, max, mean, std error= -0.39 0.50 0.02 0.21, pct Q error=0**

**fastDD-PFB-1x N= 16, RMS error=0.23, min, max, mean, std error= -0.50 0.87 0.03 0.23, pct Q error=2**

**fastDD-PFB-1x N= 32, RMS error=0.29, min, max, mean, std error= -0.72 1.13 0.05 0.29, pct Q error=9**

**fastDD-PFB-1x N= 64, RMS error=0.30, min, max, mean, std error= -0.84 1.27 0.05 0.29, pct Q error=9**

**fastDD-PFB-1x N= 128, RMS error=0.30, min, max, mean, std error= -0.98 1.31 0.04 0.29, pct Q error=9**

**fastDD-PFB-1x N= 256, RMS error=0.32, min, max, mean, std error= -1.20 1.69 0.04 0.32, pct Q error=11**

**fastDD-PFB-1x N= 512, RMS error=0.33, min, max, mean, std error= -1.34 1.76 0.03 0.33, pct Q error=13**

**fastDD-PFB-1x N= 1024, RMS error=0.35, min, max, mean, std error= -1.58 2.04 0.03 0.35, pct Q error=15**

**fastDD-PFB-1x N= 4, RMS error=0.25, min, max, mean, std error= -0.25 0.50 0.10 0.24, pct Q error=0**

**fastDD-PFB-1x N= 8, RMS error=0.28, min, max, mean, std error= -0.39 0.69 0.14 0.24, pct Q error=4**

**fastDD-PFB-1x N= 16, RMS error=0.32, min, max, mean, std error= -0.39 0.89 0.20 0.26, pct Q error=11**

**fastDD-PFB-1x N= 32, RMS error=0.33, min, max, mean, std error= -0.62 0.98 0.19 0.27, pct Q error=13**

**fastDD-PFB-1x N= 64, RMS error=0.34, min, max, mean, std error= -0.62 0.98 0.20 0.28, pct Q error=14**

**fastDD-PFB-1x N= 128, RMS error=0.36, min, max, mean, std error= -0.83 1.12 0.20 0.29, pct Q error=16**

**fastDD-PFB-1x N= 256, RMS error=0.38, min, max, mean, std error= -0.97 1.29 0.20 0.32, pct Q error=19**

**fastDD-PFB-1x N= 512, RMS error=0.40, min, max, mean, std error= -1.24 1.55 0.21 0.34, pct Q error=22**

**fastDD-PFB-1x N= 1024, RMS error=0.41, min, max, mean, std error= -1.24 1.58 0.21 0.36, pct Q error=23**

**fastDD-PFB-1x N= 8, RMS error=0.27, min, max, mean, std error= -0.38 0.50 0.08 0.26, pct Q error=0**

**fastDD-PFB-1x N= 16, RMS error=0.27, min, max, mean, std error= -0.74 0.72 0.03 0.27, pct Q error=3**

**fastDD-PFB-1x N= 32, RMS error=0.28, min, max, mean, std error= -0.74 0.85 0.05 0.28, pct Q error=6**

**fastDD-PFB-1x N= 64, RMS error=0.31, min, max, mean, std error= -0.90 1.09 0.07 0.30, pct Q error=9**

**fastDD-PFB-1x N= 128, RMS error=0.31, min, max, mean, std error= -1.07 1.14 0.06 0.31, pct Q error=10**

**fastDD-PFB-1x N= 256, RMS error=0.33, min, max, mean, std error= -1.07 1.48 0.06 0.32, pct Q error=12**

**fastDD-PFB-1x N= 512, RMS error=0.34, min, max, mean, std error= -1.44 1.48 0.06 0.34, pct Q error=14**

**fastDD-PFB-1x N= 1024, RMS error=0.36, min, max, mean, std error= -1.58 1.64 0.06 0.35, pct Q error=16**

**fastDD-PFB-1x N= 16, RMS error=0.28, min, max, mean, std error= -0.44 0.50 0.06 0.27, pct Q error=0**

**fastDD-PFB-1x N= 32, RMS error=0.29, min, max, mean, std error= -0.64 0.81 0.07 0.28, pct Q error=4**

**fastDD-PFB-1x N= 64, RMS error=0.31, min, max, mean, std error= -0.86 0.96 0.07 0.30, pct Q error=8**

**fastDD-PFB-1x N= 128, RMS error=0.32, min, max, mean, std error= -1.05 1.10 0.06 0.32, pct Q error=11**

**fastDD-PFB-1x N= 256, RMS error=0.34, min, max, mean, std error= -1.26 1.30 0.06 0.33, pct Q error=14**

**fastDD-PFB-1x N= 512, RMS error=0.35, min, max, mean, std error= -1.40 1.38 0.07 0.35, pct Q error=16**

**fastDD-PFB-1x N= 1024, RMS error=0.37, min, max, mean, std error= -1.51 1.58 0.07 0.36, pct Q error=17**

**fastDD-PFB-1x N= 32, RMS error=0.28, min, max, mean, std error= -0.47 0.50 0.04 0.28, pct Q error=0**

**fastDD-PFB-1x N= 64, RMS error=0.30, min, max, mean, std error= -0.86 0.96 0.07 0.29, pct Q error=6**

**fastDD-PFB-1x N= 128, RMS error=0.31, min, max, mean, std error= -0.90 1.14 0.08 0.30, pct Q error=9**

**fastDD-PFB-1x N= 256, RMS error=0.32, min, max, mean, std error= -1.08 1.14 0.07 0.31, pct Q error=10**

**fastDD-PFB-1x N= 512, RMS error=0.33, min, max, mean, std error= -1.18 1.41 0.07 0.33, pct Q error=13**

**fastDD-PFB-1x N= 1024, RMS error=0.35, min, max, mean, std error= -1.45 1.52 0.07 0.34, pct Q error=15**

**Taylor PFB-2x:**

**Taylor-PFB-2x N= 2, RMS error=0.00, min, max, mean, std error= 0.00 0.00 0.00 0.00, pct Q error=0**

**Taylor-PFB-2x N= 4, RMS error=0.17, min, max, mean, std error= -0.33 0.33 0.00 0.17, pct Q error=0**

**Taylor-PFB-2x N= 8, RMS error=0.23, min, max, mean, std error= -0.43 0.43 0.00 0.23, pct Q error=0**

**Taylor-PFB-2x N= 16, RMS error=0.28, min, max, mean, std error= -0.67 0.67 -0.00 0.28, pct Q error=5**

**Taylor-PFB-2x N= 32, RMS error=0.32, min, max, mean, std error= -0.77 0.77 0.00 0.32, pct Q error=8**

**Taylor-PFB-2x N= 64, RMS error=0.35, min, max, mean, std error= -1.00 1.00 0.00 0.35, pct Q error=15**

**Taylor-PFB-2x N= 128, RMS error=0.38, min, max, mean, std error= -1.11 1.11 -0.00 0.38, pct Q error=18**

**Taylor-PFB-2x N= 256, RMS error=0.41, min, max, mean, std error= -1.33 1.33 -0.00 0.41, pct Q error=22**

**Taylor-PFB-2x N= 512, RMS error=0.43, min, max, mean, std error= -1.44 1.44 0.00 0.43, pct Q error=25**

**Taylor-PFB-2x N= 1024, RMS error=0.46, min, max, mean, std error= -1.67 1.67 -0.00 0.46, pct Q error=28**

**Taylor-PFB-2x N= 4, RMS error=0.08, min, max, mean, std error= -0.17 0.17 0.00 0.09, pct Q error=0**

**Taylor-PFB-2x N= 8, RMS error=0.19, min, max, mean, std error= -0.43 0.43 0.00 0.19, pct Q error=0**

**Taylor-PFB-2x N= 16, RMS error=0.25, min, max, mean, std error= -0.60 0.60 -0.00 0.25, pct Q error=2**

**Taylor-PFB-2x N= 32, RMS error=0.29, min, max, mean, std error= -0.77 0.77 0.00 0.29, pct Q error=6**

**Taylor-PFB-2x N= 64, RMS error=0.33, min, max, mean, std error= -0.92 0.92 0.00 0.33, pct Q error=12**

**Taylor-PFB-2x N= 128, RMS error=0.36, min, max, mean, std error= -1.11 1.11 -0.00 0.36, pct Q error=16**

**Taylor-PFB-2x N= 256, RMS error=0.39, min, max, mean, std error= -1.25 1.25 -0.00 0.39, pct Q error=20**

**Taylor-PFB-2x N= 512, RMS error=0.41, min, max, mean, std error= -1.44 1.44 0.00 0.41, pct Q error=23**

**Taylor-PFB-2x N= 1024, RMS error=0.44, min, max, mean, std error= -1.58 1.58 -0.00 0.44, pct Q error=26**

**Taylor-PFB-2x N= 8, RMS error=0.12, min, max, mean, std error= -0.21 0.21 0.00 0.12, pct Q error=0**

**Taylor-PFB-2x N= 16, RMS error=0.21, min, max, mean, std error= -0.50 0.50 -0.00 0.21, pct Q error=0**

**Taylor-PFB-2x N= 32, RMS error=0.26, min, max, mean, std error= -0.68 0.68 0.00 0.26, pct Q error=4**

**Taylor-PFB-2x N= 64, RMS error=0.30, min, max, mean, std error= -0.83 0.83 0.00 0.30, pct Q error=9**

**Taylor-PFB-2x N= 128, RMS error=0.34, min, max, mean, std error= -0.99 0.99 -0.00 0.34, pct Q error=13**

**Taylor-PFB-2x N= 256, RMS error=0.37, min, max, mean, std error= -1.17 1.17 -0.00 0.37, pct Q error=17**

**Taylor-PFB-2x N= 512, RMS error=0.39, min, max, mean, std error= -1.32 1.32 0.00 0.39, pct Q error=21**

**Taylor-PFB-2x N= 1024, RMS error=0.42, min, max, mean, std error= -1.50 1.50 -0.00 0.42, pct Q error=24**

**Taylor-PFB-2x N= 16, RMS error=0.13, min, max, mean, std error= -0.23 0.23 -0.00 0.13, pct Q error=0**

**Taylor-PFB-2x N= 32, RMS error=0.21, min, max, mean, std error= -0.60 0.60 0.00 0.21, pct Q error=1**

**Taylor-PFB-2x N= 64, RMS error=0.26, min, max, mean, std error= -0.77 0.77 0.00 0.26, pct Q error=5**

**Taylor-PFB-2x N= 128, RMS error=0.30, min, max, mean, std error= -0.94 0.94 -0.00 0.30, pct Q error=10**

**Taylor-PFB-2x N= 256, RMS error=0.34, min, max, mean, std error= -1.09 1.09 -0.00 0.34, pct Q error=14**

**Taylor-PFB-2x N= 512, RMS error=0.37, min, max, mean, std error= -1.28 1.28 0.00 0.37, pct Q error=18**

**Taylor-PFB-2x N= 1024, RMS error=0.40, min, max, mean, std error= -1.42 1.42 -0.00 0.40, pct Q error=21**

**Taylor-PFB-2x N= 32, RMS error=0.14, min, max, mean, std error= -0.24 0.24 0.00 0.14, pct Q error=0**

**Taylor-PFB-2x N= 64, RMS error=0.22, min, max, mean, std error= -0.64 0.64 0.00 0.22, pct Q error=2**

**Taylor-PFB-2x N= 128, RMS error=0.27, min, max, mean, std error= -0.84 0.84 -0.00 0.27, pct Q error=6**

**Taylor-PFB-2x N= 256, RMS error=0.31, min, max, mean, std error= -0.99 0.99 -0.00 0.31, pct Q error=10**

**Taylor-PFB-2x N= 512, RMS error=0.34, min, max, mean, std error= -1.16 1.16 0.00 0.34, pct Q error=15**

**Taylor-PFB-2x N= 1024, RMS error=0.37, min, max, mean, std error= -1.33 1.33 -0.00 0.37, pct Q error=18**

**fastDD PFB-2x:**

**fastDD-PFB-2x N= 2, RMS error=0.00, min, max, mean, std error= 0.00 0.00 0.00 0.00, pct Q error=0**

**fastDD-PFB-2x N= 4, RMS error=0.15, min, max, mean, std error= -0.48 0.24 -0.02 0.15, pct Q error=0**

**fastDD-PFB-2x N= 8, RMS error=0.15, min, max, mean, std error= -0.48 0.24 -0.06 0.14, pct Q error=0**

**fastDD-PFB-2x N= 16, RMS error=0.19, min, max, mean, std error= -0.73 0.25 -0.09 0.17, pct Q error=3**

**fastDD-PFB-2x N= 32, RMS error=0.21, min, max, mean, std error= -0.73 0.47 -0.09 0.19, pct Q error=2**

**fastDD-PFB-2x N= 64, RMS error=0.24, min, max, mean, std error= -0.94 0.68 -0.09 0.22, pct Q error=4**

**fastDD-PFB-2x N= 128, RMS error=0.25, min, max, mean, std error= -1.03 0.68 -0.09 0.23, pct Q error=5**

**fastDD-PFB-2x N= 256, RMS error=0.26, min, max, mean, std error= -1.10 0.86 -0.08 0.25, pct Q error=6**

**fastDD-PFB-2x N= 512, RMS error=0.29, min, max, mean, std error= -1.36 1.04 -0.08 0.27, pct Q error=8**

**fastDD-PFB-2x N= 1024, RMS error=0.30, min, max, mean, std error= -1.36 1.22 -0.08 0.29, pct Q error=10**

**fastDD-PFB-2x N= 4, RMS error=0.11, min, max, mean, std error= 0.00 0.25 0.05 0.10, pct Q error=0**

**fastDD-PFB-2x N= 8, RMS error=0.21, min, max, mean, std error= -0.03 0.62 0.13 0.17, pct Q error=3**

**fastDD-PFB-2x N= 16, RMS error=0.25, min, max, mean, std error= -0.47 0.79 0.13 0.22, pct Q error=4**

**fastDD-PFB-2x N= 32, RMS error=0.27, min, max, mean, std error= -0.47 1.13 0.16 0.23, pct Q error=6**

**fastDD-PFB-2x N= 64, RMS error=0.28, min, max, mean, std error= -0.68 1.13 0.17 0.23, pct Q error=7**

**fastDD-PFB-2x N= 128, RMS error=0.30, min, max, mean, std error= -0.70 1.13 0.17 0.24, pct Q error=9**

**fastDD-PFB-2x N= 256, RMS error=0.33, min, max, mean, std error= -0.86 1.53 0.18 0.28, pct Q error=12**

**fastDD-PFB-2x N= 512, RMS error=0.34, min, max, mean, std error= -1.00 1.78 0.18 0.29, pct Q error=14**

**fastDD-PFB-2x N= 1024, RMS error=0.36, min, max, mean, std error= -1.12 1.91 0.18 0.31, pct Q error=16**

**fastDD-PFB-2x N= 8, RMS error=0.13, min, max, mean, std error= -0.13 0.25 0.06 0.12, pct Q error=0**

**fastDD-PFB-2x N= 16, RMS error=0.16, min, max, mean, std error= -0.54 0.60 0.04 0.16, pct Q error=1**

**fastDD-PFB-2x N= 32, RMS error=0.20, min, max, mean, std error= -0.58 0.79 0.02 0.20, pct Q error=3**

**fastDD-PFB-2x N= 64, RMS error=0.24, min, max, mean, std error= -0.93 0.95 0.03 0.23, pct Q error=4**

**fastDD-PFB-2x N= 128, RMS error=0.25, min, max, mean, std error= -0.93 1.16 0.05 0.25, pct Q error=5**

**fastDD-PFB-2x N= 256, RMS error=0.27, min, max, mean, std error= -1.00 1.16 0.04 0.26, pct Q error=7**

**fastDD-PFB-2x N= 512, RMS error=0.29, min, max, mean, std error= -1.12 1.56 0.04 0.28, pct Q error=8**

**fastDD-PFB-2x N= 1024, RMS error=0.30, min, max, mean, std error= -1.30 1.56 0.05 0.30, pct Q error=10**

**fastDD-PFB-2x N= 16, RMS error=0.14, min, max, mean, std error= -0.19 0.25 0.04 0.13, pct Q error=0**

**fastDD-PFB-2x N= 32, RMS error=0.17, min, max, mean, std error= -0.51 0.65 0.03 0.17, pct Q error=1**

**fastDD-PFB-2x N= 64, RMS error=0.20, min, max, mean, std error= -0.72 0.68 0.04 0.19, pct Q error=2**

**fastDD-PFB-2x N= 128, RMS error=0.22, min, max, mean, std error= -0.83 0.87 0.04 0.21, pct Q error=3**

**fastDD-PFB-2x N= 256, RMS error=0.24, min, max, mean, std error= -0.98 1.14 0.05 0.23, pct Q error=4**

**fastDD-PFB-2x N= 512, RMS error=0.26, min, max, mean, std error= -1.15 1.22 0.05 0.25, pct Q error=6**

**fastDD-PFB-2x N= 1024, RMS error=0.28, min, max, mean, std error= -1.25 1.31 0.05 0.27, pct Q error=7**

**fastDD-PFB-2x N= 32, RMS error=0.14, min, max, mean, std error= -0.22 0.25 0.03 0.14, pct Q error=0**

**fastDD-PFB-2x N= 64, RMS error=0.18, min, max, mean, std error= -0.66 0.68 0.02 0.17, pct Q error=1**

**fastDD-PFB-2x N= 128, RMS error=0.21, min, max, mean, std error= -0.91 0.93 0.02 0.21, pct Q error=3**

**fastDD-PFB-2x N= 256, RMS error=0.23, min, max, mean, std error= -1.09 0.98 0.02 0.23, pct Q error=4**

**fastDD-PFB-2x N= 512, RMS error=0.25, min, max, mean, std error= -1.09 1.28 0.03 0.25, pct Q error=5**

**fastDD-PFB-2x N= 1024, RMS error=0.27, min, max, mean, std error= -1.40 1.30 0.03 0.27, pct Q error=7**

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