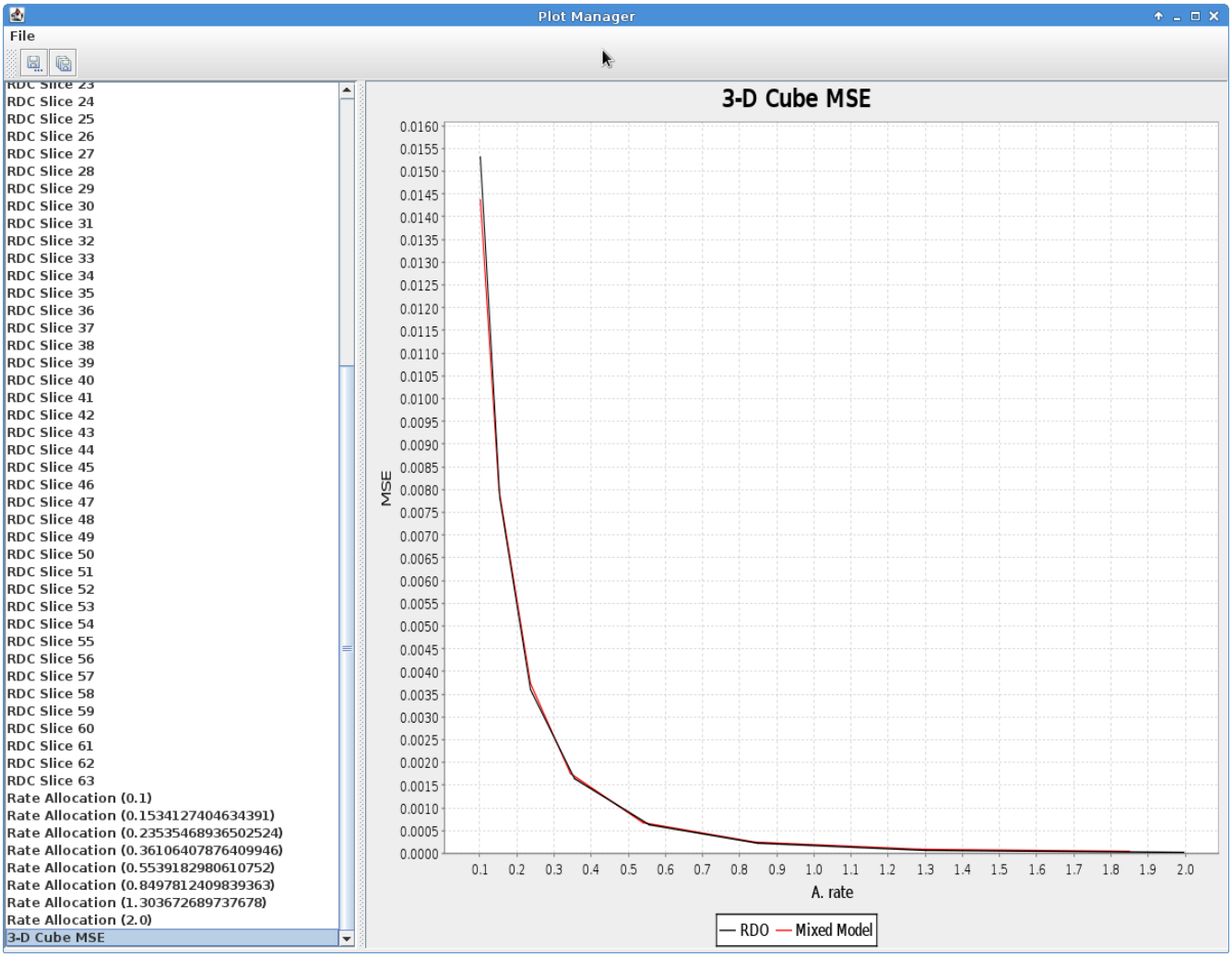
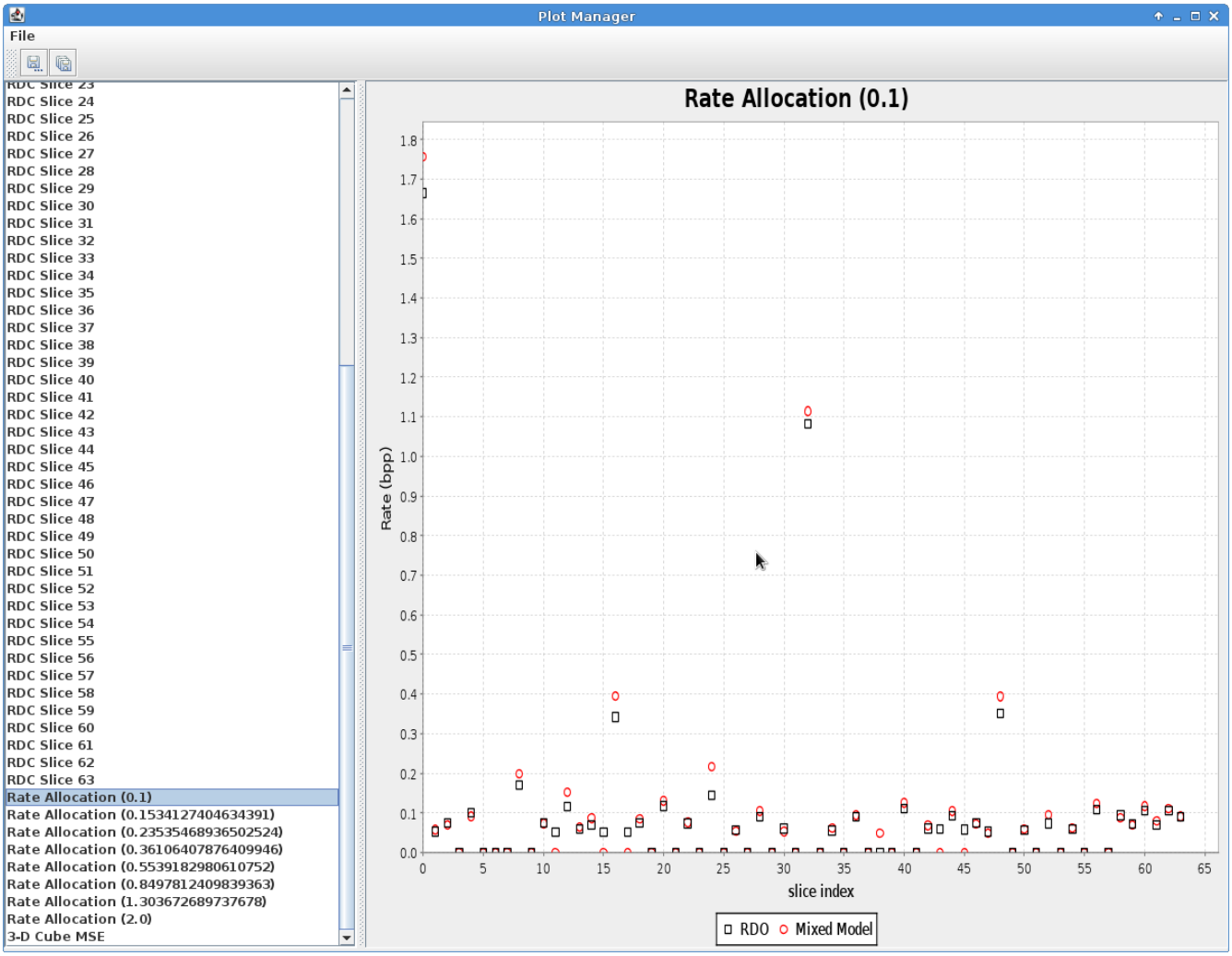
CompressMD Studies Capabilities

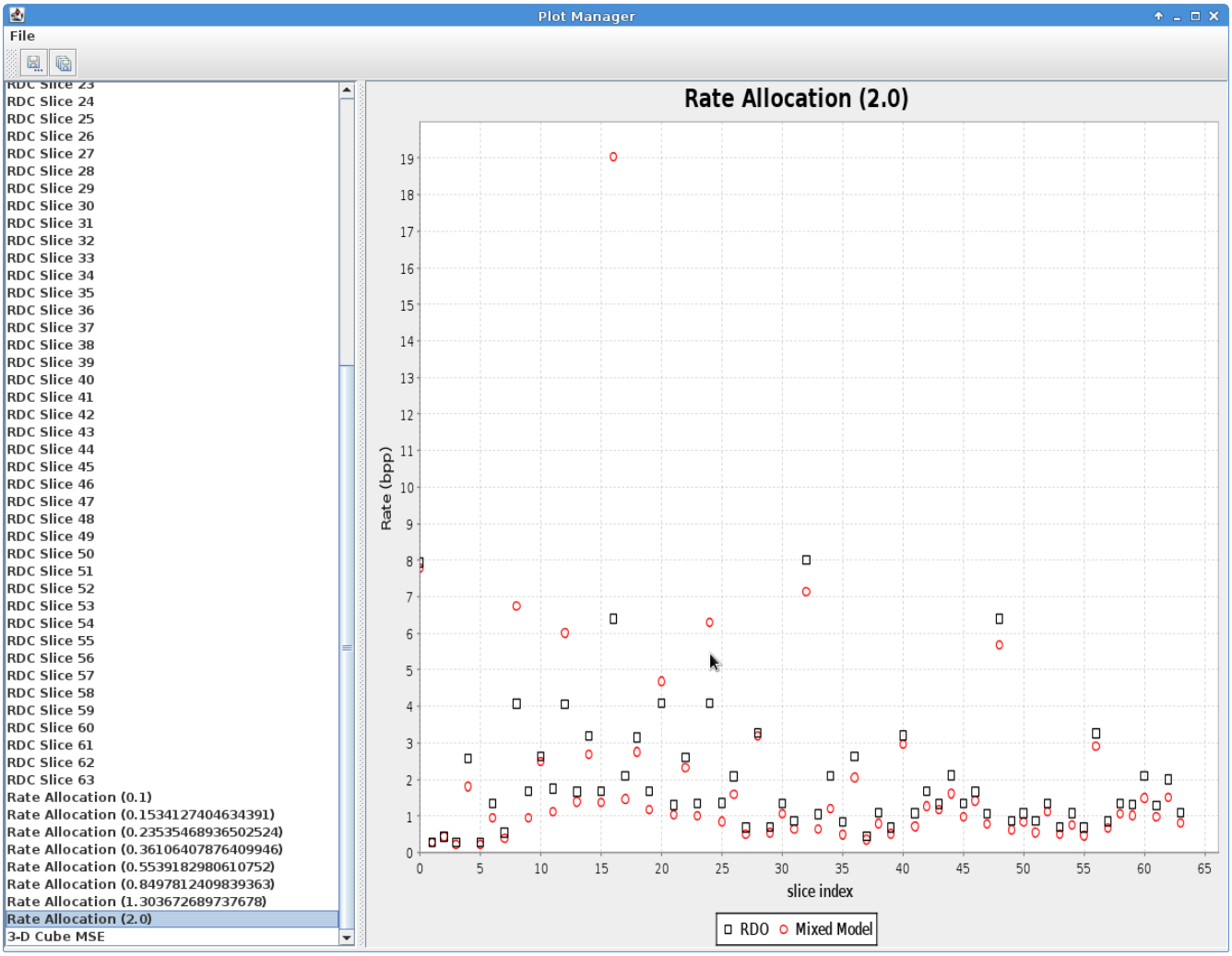
Rate distortion



Rate Allocation (0.1) on 63 slices of u component from bfmdata.nc



Rate Allocation (2.0) on 63 slices of u component from bfmdata.nc



Global Quantizer using random data.

run:
2 x 10 x 10 matrix
 0.273633 0.859518 -0.261632 0.688603 -0.587309 -0.332383 -0.388606 -0.211284 -0.316306 0.836961
 0.571491 -1.139613 -0.114303 1.259926 -0.846585 0.520507 -2.773031 -0.483793 1.810932 1.123389
 0.463968 -0.637739 1.215741 0.319829 0.480008 0.690775 1.534113 0.552226 -0.282466 -0.229875
-1.053532 -0.213628 0.739171 2.290816 -0.798057 -0.033251 0.164782 -1.02201 -0.39761 -1.127851
-1.414354 0.500271 -3.093484 2.227654 -1.799871 0.361137 -0.477132 -0.961282 0.486483 -0.638259
-0.321783 0.015847 -0.294209 -0.240735 -1.615824 -0.670007 1.215541 -0.158528 -1.112299 -1.830384
-0.496943 1.543748 0.580411 0.152192 0.135703 -0.644717 0.306226 2.343184 -1.59219 -1.843257
 0.622258 -1.281194 -0.518678 -0.298262 0.006628 0.018664 -0.88837   1.000354 -1.139523

1.386321
 0.962437 1.050655 0.221852 -0.663425 -0.185381 -0.819294 1.500671 0.674155 0.399921
-0.769026
 0.594178 -0.084664 1.109414 0.090058 -1.113634 -0.393046 0.456538 -0.130546 -2.007475
2.334764

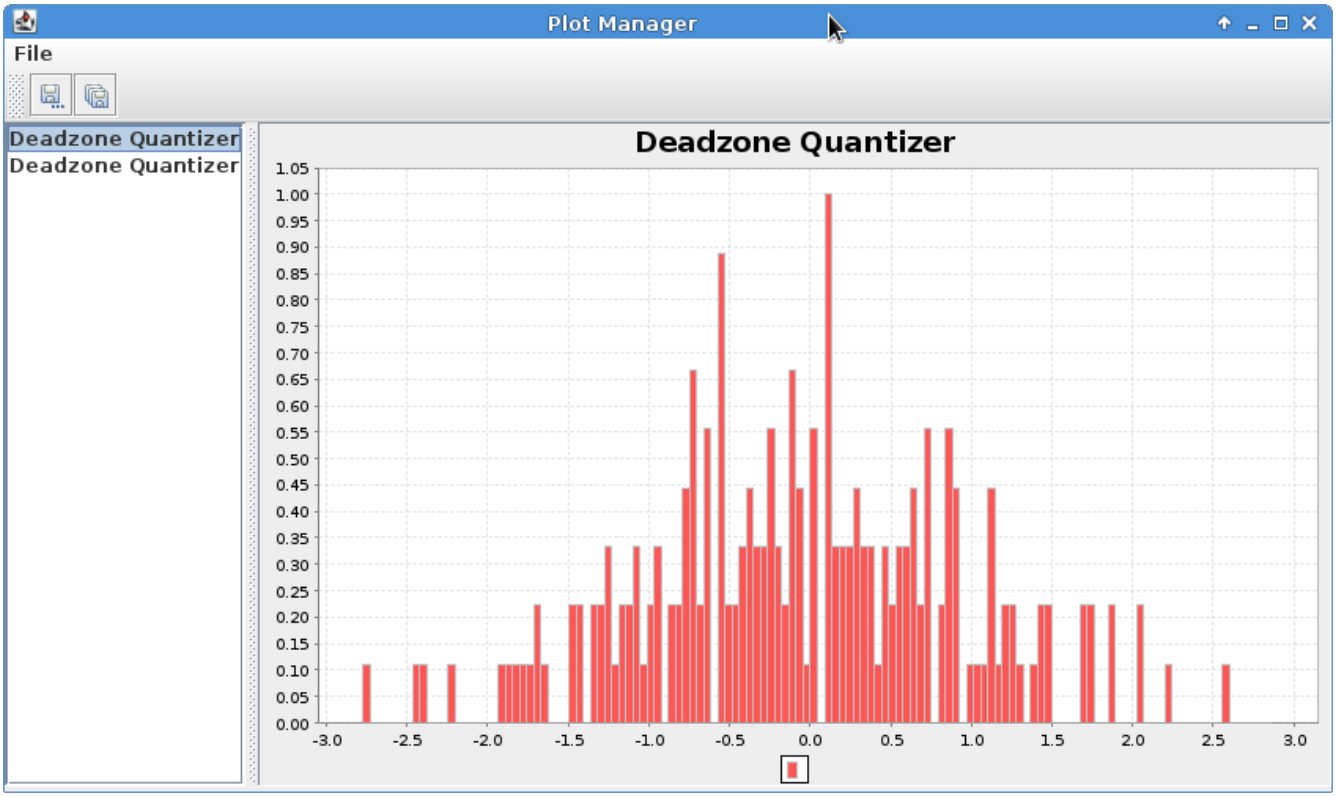
-0.049927 1.806604 -0.614541 -0.502404 0.362479 -0.11526 -0.036284 1.722162 -0.061172
-1.953348
-0.468352 -1.762333 -0.364826 -0.681129 1.151922 0.11728 -2.369811 -0.042959 -0.112722
0.456743
 0.711748 -0.344554 -2.259474 -0.010103 -0.59308 -0.968261 -0.841001 -0.065819 1.881247
-0.212702
-0.529469 -1.357189 0.097532 0   -0.162556 -0.43452   0.651519 0.312677 -0.356134 -0.456302
-0.981936 -0.382348 0.728054 -0.658844 0.623777 -0.819781 -2.119756 -1.357496 0.589653
-0.58647
 0.440149 0.460708 1.276969 1.049105 1.358433 0.458866 0.113406 -0.275343 0.081368
0.20097
-0.291091 -0.265421 0.790043 -0.006888 -0.2301   -0.4011   0.0934   -0.964108 0.136151 -1.484008
-0.408108 -0.06113 -1.180672 0.718291 0.213288 -0.422102 0.390929 1.908776 1.274215
-1.013183
-1.006476 -0.498588 -0.36344 -0.259787 -0.319826 0.725929 -0.543891 -0.439241 -0.316279
0.001645
-1.464381 -0.396459 -2.150014 1.656847 -0.834236 1.351534 -1.186376 0.85952   0.882888
0.161174
2 x 10 x 10 matrix
 30 57   5 49 -10   2   -1   7   2 56
 44 -36   12 76 -23 42 -113 -6 102 70
 39 -13   74 32 40 49   89 43   4   6
-32   7   52 125 -20 16   25 -31 -2 -36
-49 41 -128 122 -67 34   -5 -28 40 -13
  2 18   3   6 -59 -14   74 10 -35 -69
 -6 90   44 24 23 -13   31 127 -58 -69
 46 -43   -7   3 17 18 -25 64 -36 82
 62 66   28 -14   8 -21   87 49 36 -19
 45 13   69 21 -35 -1   39 11 -77 127

 15 102 -12 -6 34 12 15 98 14 -75
 -5 -66   0 -15 71 23 -94 15 12 39
 50   1 -89 17 -11 -28 -22 14 105   7
 -8 -47 22 17   9 -3 48 32   0 -4
-29 -1 51 -14 46 -21 -82 -47 45 -10
 38 39 77 66 81 39 22   4 21 27
  3   5 54 17   6 -2 21 -28 23 -53
 -2 14 -38 51 27 -3 35 107 77 -30
-30 -6   0   5   2 51 -8 -4   2 17
-52 -1 -84 95 -22 80 -39 57 59 25
2 x 10 x 10 matrix
 0.275118 0.850766 -0.257888 0.680204 -0.577692 -0.321849 -0.38581 -0.215248 -0.321849
0.829445

0.573602 -1.132019 -0.108646 1.255851 -0.854856 0.530962 -2.77368 -0.492411 1.810178 1.127929
0.467001 -0.641653 1.21321 0.317759 0.488321 0.680204 1.533014 0.552282 -0.279208 -0.236568
-1.046738 -0.215248 0.744164 2.300544 -0.790895 -0.023365 0.168517 -1.025418 -0.40713 -1.132019
-1.409183 0.509641 -3.093484 2.236583 -1.792947 0.3604 -0.471091 -0.961457 0.488321 -0.641653
-0.321849 0.019275 -0.300529 -0.236568 -1.622385 -0.662973 1.21321 -0.151287 -1.110699 -1.835588
-0.492411 1.554334 0.573602 0.147197 0.125877 -0.641653 0.296439 2.343184 -1.601065 -1.835588
0.616243 -1.281261 -0.513731 -0.300529 -0.002045 0.019275 -0.897496 1.000008 -1.132019 1.383772
0.957367 1.042648 0.232478 -0.662973 -0.193927 -0.812215 1.490374 0.680204 0.40304 -0.769575
0.594922 -0.087326 1.106609 0.083236 -1.110699 -0.38581 0.467001 -0.129967 -2.00615 2.343184

-0.044686 1.810178 -0.620333 -0.492411 0.3604 -0.108646 -0.044686 1.724897 -0.066006 -1.963509
-0.471091 -1.771627 -0.36449 -0.684294 1.149249 0.125877 -2.368595 -0.044686 -0.108646 0.467001
0.701524 -0.343169 -2.261993 -0.002045 -0.599012 -0.961457 -0.833535 -0.066006 1.874138 -0.215248
-0.535052 -1.366542 0.104556 -0.002045 -0.172607 -0.42845 0.658883 0.317759 -0.36449 -0.449771
-0.982777 -0.38581 0.722844 -0.662973 0.616243 -0.812215 -2.112751 -1.366542 0.594922 -0.577692
0.445681 0.467001 1.277171 1.042648 1.362452 0.467001 0.104556 -0.279208 0.083236 0.211158
-0.300529 -0.257888 0.786805 -0.002045 -0.236568 -0.40713 0.083236 -0.961457 0.125877 -1.494464
-0.40713 -0.066006 -1.17466 0.722844 0.211158 -0.42845 0.38172 1.916779 1.277171 -1.004098
-1.004098 -0.492411 -0.36449 -0.257888 -0.321849 0.722844 -0.535052 -0.449771 -0.321849 -0.002045
-1.473143 -0.38581 -2.155392 1.660936 -0.833535 1.341132 -1.19598 0.850766 0.893406 0.168517

Deadzone Quantizer



Deadzone Quantizer