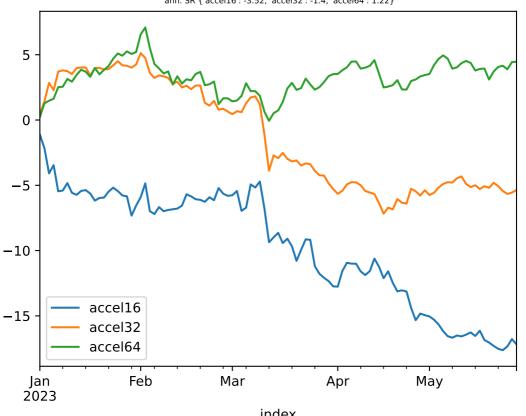
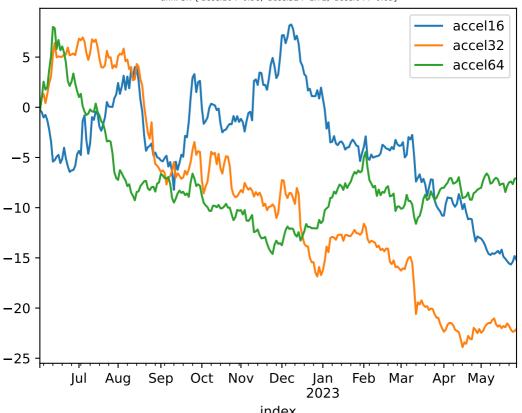
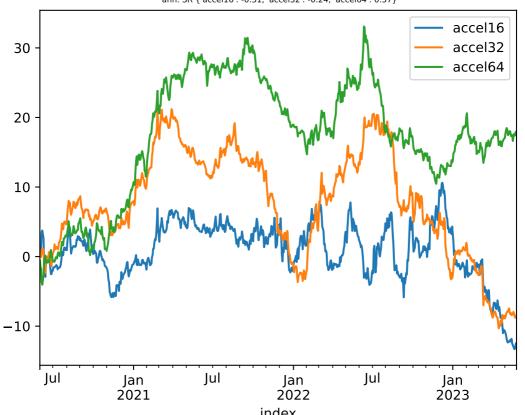
Total Trading Rule P&L for period 'YTD' ann. mean {'accel16': -41.891, 'accel32': -13.074, 'accel64': 10.891} ann. std {'accel16': -1.888, 'accel32': 9.308, 'accel64': 8.912} ann. SR {'accel16': -3.52, 'accel32': -1.4, 'accel64': 1.22}



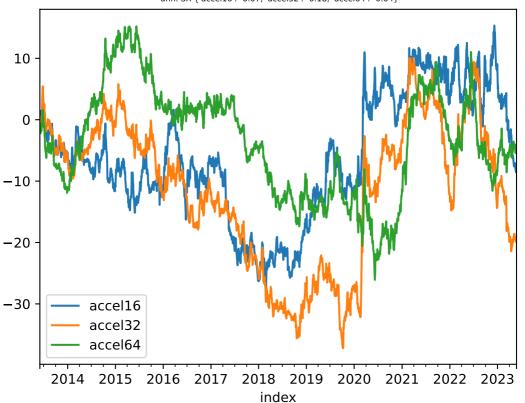
Total Trading Rule P&L for period '1Y' ann. mean {'accel16': -15.161, 'accel32': -21.993, 'accel64': -7.05} ann. std {'accel16': 15.507, 'accel32': -12.792, 'accel64': 10.218} ann. SR {'accel16': -0.98, 'accel32': -1.72, 'accel64': -0.69}



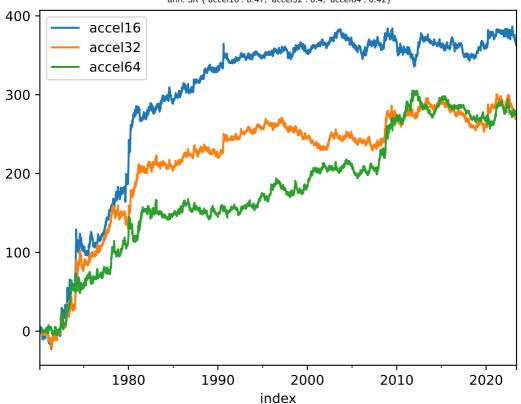
Total Trading Rule P&L for period '3Y'
ann. mean {'accel16': -4.226, 'accel32': -2.792, 'accel64': 5.914}
ann. std {'accel16': 13.499, 'accel32': 11.752, 'accel64': 10.421}
ann. SR {'accel16': -0.31, 'accel32': -0.24, 'accel64': 0.57}



Total Trading Rule P&L for period '10Y' ann. mean {'accel16': -0.798, 'accel32': -1.928, 'accel64': -0.397} ann. std {'accel16': 11.683, 'accel32': -10.664, 'accel64': 9.309} ann. SR {'accel16': -0.07, 'accel32': -0.18, 'accel64': -0.04}

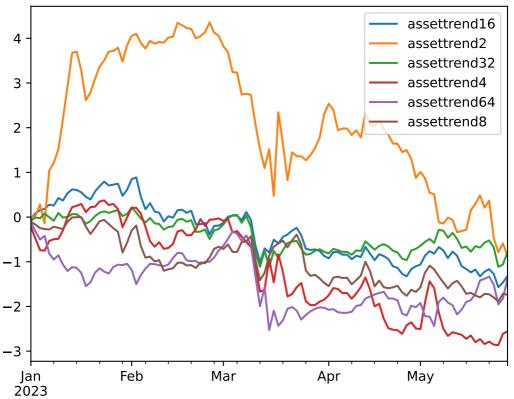


Total Trading Rule P&L for period '99Y' ann. mean {'accel16': 6.684, 'accel32': 4.984, 'accel64': 5.132} ann. std {'accel16': 14.121, 'accel32': 12.446, 'accel64': 12.096} ann. SR {'accel16': 0.47, 'accel32': 0.4, 'accel64': 0.42}



Total Trading Rule P&L for period 'YTD'

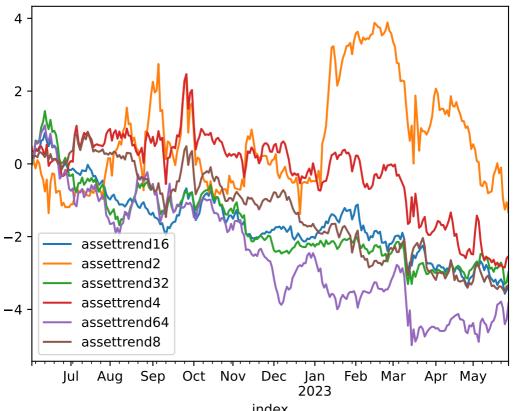
ann. mean {'assettrend16': -3.218, 'assettrend2': -2.119, 'assettrend32': -1.921, 'assettrend4': -6.231, 'assettrend64': -3.361, 'assettrend8': -4.238} ann. std {'assettrend16': 2.466, 'assettrend2': 6.265, 'assettrend32': 2.36, 'assettrend4': 3.659, 'assettrend64': 3.428, 'assettrend8': 2.726} ann. SR {'assettrend16': -1.31, 'assettrend2': -0.34, 'assettrend32': -0.81, 'assettrend4': -1.7, 'assettrend64': -0.98, 'assettrend8': -1.55}



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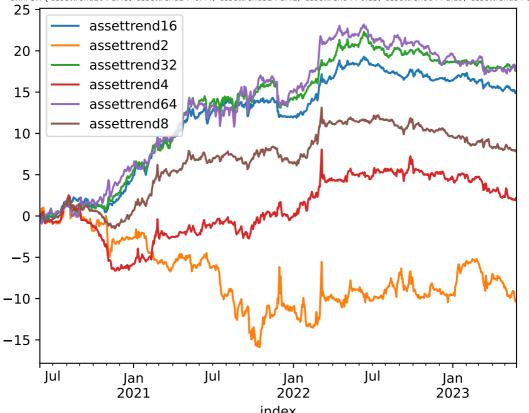
Total Trading Rule P&L for period '1Y'

ann. mean {'assettrend16': -3.312, 'assettrend2': -1.333, 'assettrend32': -2.968, 'assettrend4': -2.528, 'assettrend64': -3.817, 'assettrend8': -3.37} ann. std {'assettrend16': 2.25, 'assettrend2': 6.236, 'assettrend32': 2.479, 'assettrend4': 3.945, 'assettrend64': 3.182, 'assettrend8': 2.656} ann. SR {'assettrend16': -1.47, 'assettrend2': -0.21, 'assettrend32': -1.2, 'assettrend4': -0.64, 'assettrend64': -1.2, 'assettrend8': -1.27}



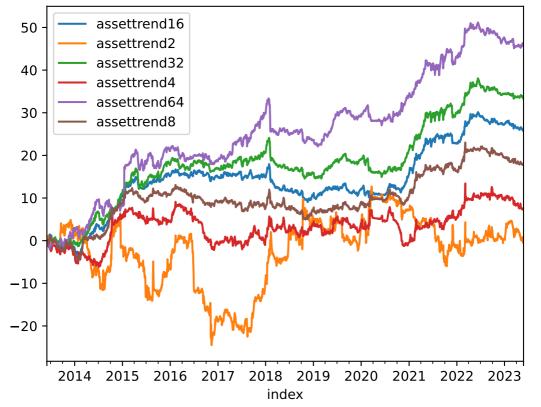
Total Trading Rule P&L for period '3Y'

ann. mean {'assettrend16': 4.967, 'assettrend2': -3.425, 'assettrend32': 5.88, 'assettrend4': 0.736, 'assettrend64': 6.013, 'assettrend8': 2.622} ann. std {'assettrend16': 3.427, 'assettrend2': 7.848, 'assettrend32': 4.142, 'assettrend4': 4.991, 'assettrend64': 5.034, 'assettrend8': 3.538} ann. SR {'assettrend16': 1.45, 'assettrend2': -0.44, 'assettrend32': 1.42, 'assettrend4': 0.15, 'assettrend64': 1.19, 'assettrend8': 0.74}



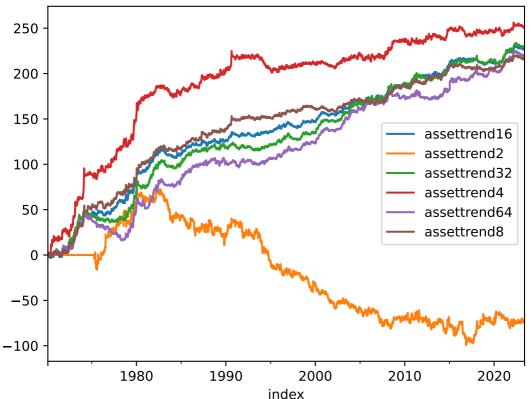
Total Trading Rule P&L for period '10Y'

ann. mean {'assettrend16': 2.552, 'assettrend2': -0.053, 'assettrend32': 3.307, 'assettrend4': 0.748, 'assettrend64': 4.548, 'assettrend8': 1.757} ann. std {'assettrend16': 3.15, 'assettrend2': 9.775, 'assettrend32': 3.588, 'assettrend4': 4.972, 'assettrend64': 5.196, 'assettrend8': 3.447} ann. SR {'assettrend16': 0.81, 'assettrend2': -0.01, 'assettrend32': 0.92, 'assettrend4': 0.15, 'assettrend64': 0.88, 'assettrend8': 0.51}



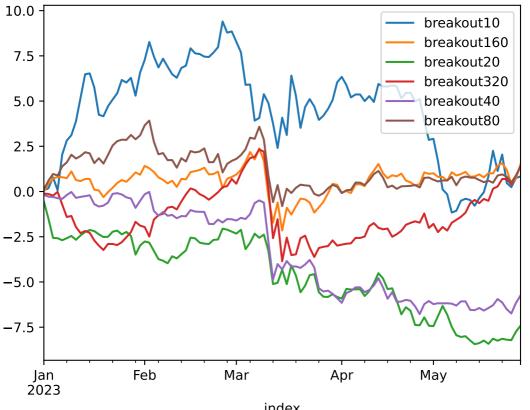
Total Trading Rule P&L for period '99Y'

ann. mean {'assettrend16': 4.166, 'assettrend2': -1.388, 'assettrend32': 4.222, 'assettrend4': 4.611, 'assettrend64': 4.05, 'assettrend8': 3.967} ann. Std {'assettrend16': 4.301, 'assettrend2': 10.254, 'assettrend32': 4.492, 'assettrend4': 6.543, 'assettrend64': 4.993, 'assettrend8': 0.81, 'assettrend6': 0.97, 'assettrend6': 0.97, 'assettrend6': 0.81, 'assettrend6



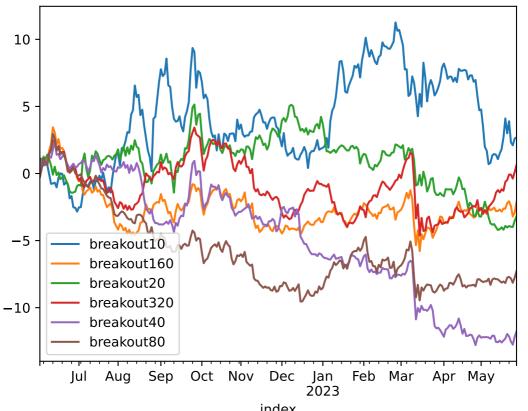
Total Trading Rule P&L for period 'YTD'

ann. mean {'breakout10': 2.032, 'breakout160': 3.678, 'breakout20': -18.088, 'breakout320': 3.403, 'breakout40': -14.018, 'breakout80': 3.32} ann. std {'breakout10': 13.819, 'breakout160': 7.419, 'breakout20': 7.361, 'breakout320': 8.963, 'breakout40': 6.855, 'breakout80': 7.25} ann. SR {'breakout10': 0.15, 'breakout160': 0.5, 'breakout20': -2.46, 'breakout320': 0.38, 'breakout40': -2.04, 'breakout80': 0.46}



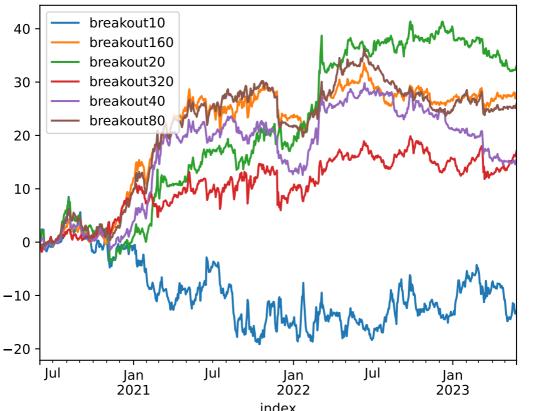
Total Trading Rule P&L for period '1Y' ann. mean {'breakout10': 2.68, 'breakout160': -2.109, 'breakout20': -3.181, 'breakout320': 0.623, 'breakout40': -11.721, 'breakout80': -7.258}

ann. mean {'breakout10': 2.68, 'breakout160': -2.109, 'breakout20': -3.181, 'breakout320': 0.623, 'breakout40': -11.721, 'breakout80': -7.258} ann. std {'breakout10': 13.463, 'breakout160': 7.004, 'breakout20': 8.413, 'breakout320': 7.63, 'breakout40': -1.56, 'breakout80': 6.541} ann. SR {'breakout10': 0.2, 'breakout160': -0.3, 'breakout20': -0.38, 'breakout320': 0.08, 'breakout40': -1.64, 'breakout80': -1.11}



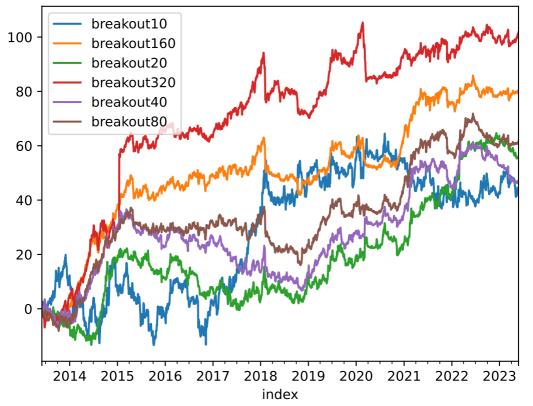
Total Trading Rule P&L for period '3Y'

ann. mean {'breakout10': -4.218, 'breakout160': 9.21, 'breakout20': 10.854, [']breakout320': 5.608, 'breakout40': 5.12, 'breakout80': 8.531} ann. std {'breakout10': 15.186, 'breakout160': 9.223, 'breakout20': 11.091, 'breakout320': 9.93, 'breakout40': 9.511, 'breakout80': 8.931} ann. SR {'breakout10': -0.28, 'breakout160': 1.0, 'breakout20': 0.98, 'breakout320': 0.56, 'breakout40': 0.54, 'breakout80': 0.96}



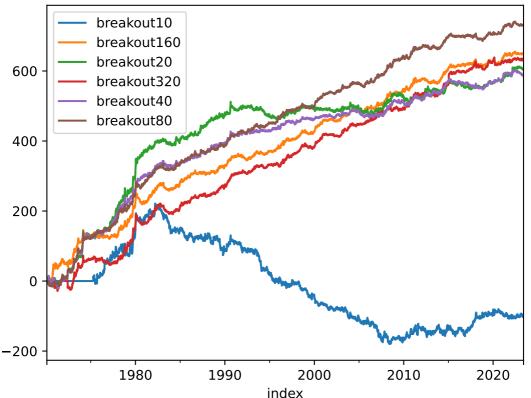
Total Trading Rule P&L for period '10Y'

ann. mean {'breakout10': 4.241, 'breakout160': 7.891, 'breakoŭt20': 5.537, 'breakout320': 10.002, 'breakout40': 4.636, 'breakout80': 6.056} ann. std {'breakout10': 17.799, 'breakout160': 8.853, 'breakout20': 11.045, 'breakout320': 13.086, 'breakout40': 9.357, 'breakout80': 8.706} ann. SR ('breakout10': 0.24, 'breakout160': 0.89, 'breakout20': 0.5, 'breakout320': 0.76, 'breakout40': 0.5, 'breakout80': 0.7}



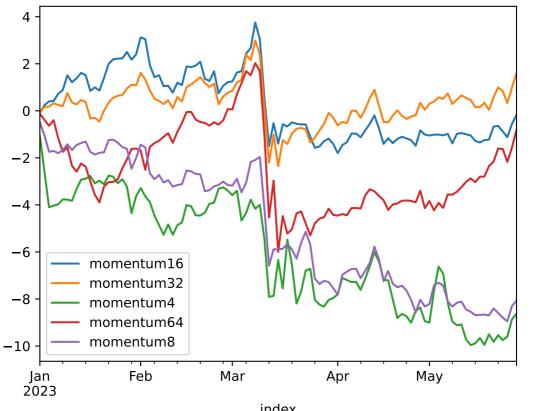
Total Trading Rule P&L for period '99Y'

ann. mean {'breakout10': -1.864, 'breakout160': 11.968, 'breakout20': 11.126, 'breakout320': 11.689, 'breakout40': 10.818, 'breakout80': 13.459} ann. std {'breakout10': 21.308, 'breakout160': 11.521, 'breakout20': 14.88, 'breakout320': 12.107, 'breakout40': 12.103, 'breakout80': 11.708} ann. SR {'breakout10': -0.09, 'breakout160': 1.04, 'breakout20': 0.75, 'breakout320': 0.97, 'breakout40': 0.89, 'breakout80': 1.15}



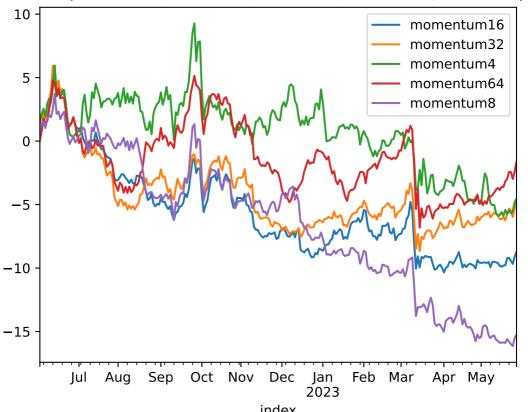
Total Trading Rule P&L for period 'YTD'

ann. mean {'momentum16': -0.436, 'momentum32': 3.925, 'momentum4': -21.033, 'momentum64': -1.976, 'momentum8': -19.667} ann. std {'momentum16': 8.071, 'momentum32': 8.206, 'momentum4': 10.755, 'momentum64': 10.869, 'momentum8': 8.174} ann. SR {'momentum16': -0.05, 'momentum32': 0.48, 'momentum4': -1.96, 'momentum64': -0.18, 'momentum8': -2.41}



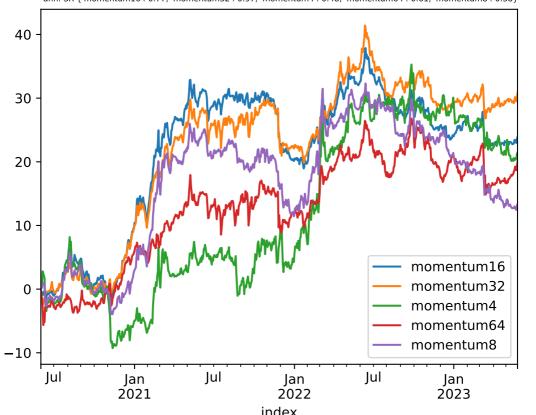
Total Trading Rule P&L for period '1Y'

ann. mean {'momentum16': -8.696, 'momentum32': -4.67, 'momentum4': -4.536, 'momentum64': -1.618, 'momentum8': -15.201} ann. std {'momentum16': 8.531, 'momentum32': 8.829, 'momentum4': 13.243, 'momentum64': 10.219, 'momentum8': 9.749} ann. SR {'momentum16': -1.02, 'momentum32': -0.53, 'momentum4': -0.34, 'momentum64': -0.16, 'momentum8': -1.56}



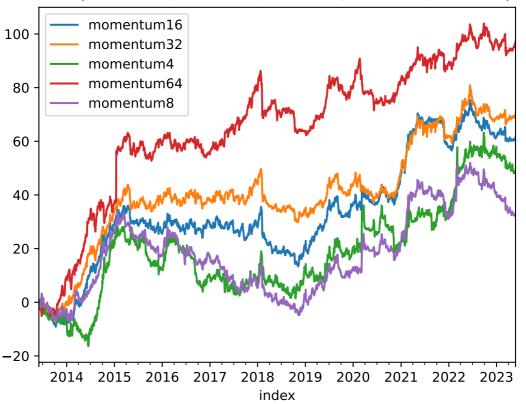
Total Trading Rule P&L for period '3Y'

ann. mean {'momentum16': 7.858, 'momentum32': 10.1Ĭ6, 'momentum4': 7.054, 'momentum64': 6.581, 'momentum8': 4.382} ann. std {'momentum16': 10.139, 'momentum32': 10.394, 'momentum4': 14.722, 'momentum64': 10.84, 'momentum8': 11.461} ann. SR ('momentum16': 0.77, 'momentum32': 0.97, 'momentum4': 0.48, 'momentum64': 0.61, 'momentum8': 0.38}



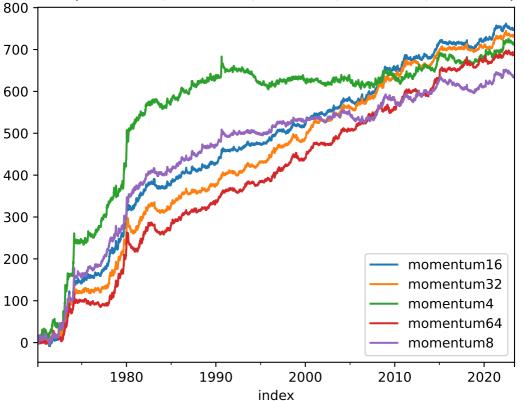
Total Trading Rule P&L for period '10Y'

ann. mean {'momentum16': 6.041, 'momentum32': 6.905, 'momentum4': 4.854, 'momentum64': 9.548, 'momentum8': 3.242} ann. std {'momentum16': 9.63, 'momentum32': 9.256, 'momentum4': 13.672, 'momentum64': 11.876, 'momentum8': 10.83} ann. SR {'momentum16': 0.063, 'momentum8': 0.03}



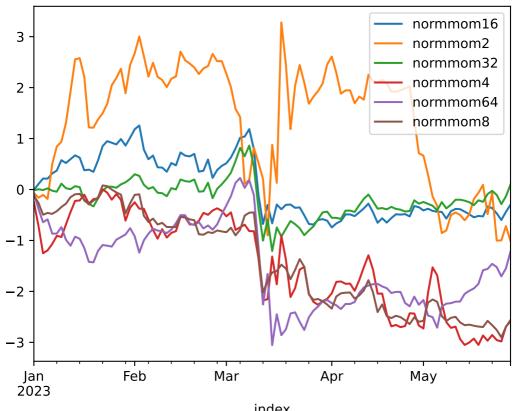
Total Trading Rule P&L for period '99Y'

ann. mean {'momentum16': 13.773, 'momentum32': 13.515, 'momentum4': 13.113, 'momentum64': 12.721, 'momentum8': 11.659} ann. std {'momentum16': 13.037, 'momentum32': 12.601, 'momentum4': 17.882, 'momentum64': 12.323, 'momentum8': 14.321} ann. SR {'momentum16': 1.06, 'momentum32': 1.07, 'momentum4': 0.73, 'momentum64': 1.03, 'momentum8': 0.81}



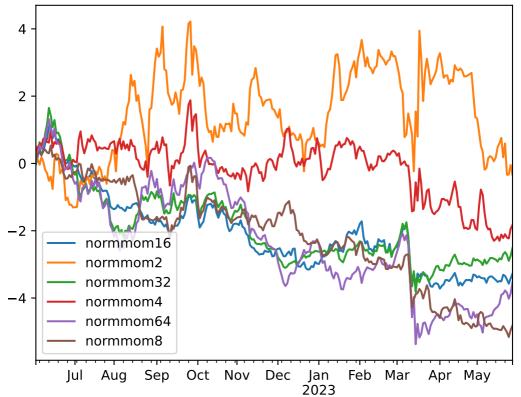
Total Trading Rule P&L for period 'YTD'

ann. mean {'normmom16': -0.73, 'normmom2': -2.465, 'normmom32': 0.239, 'normmom4': -6.302, 'normmom64': -2.976, 'normmom8': -6.249} ann. std {'normmom16': 2.894, 'normmom2': 8.539, 'normmom32': 2.862, 'normmom4': 4.46, 'normmom64': 4.285, 'normmom8': 2.913} ann. SR {'normmom16': -0.25, 'normmom2': -0.29, 'normmom32': 0.08, 'normmom4': -1.41, 'normmom64': -0.69, 'normmom8': -2.15}



Total Trading Rule P&L for period '1Y'

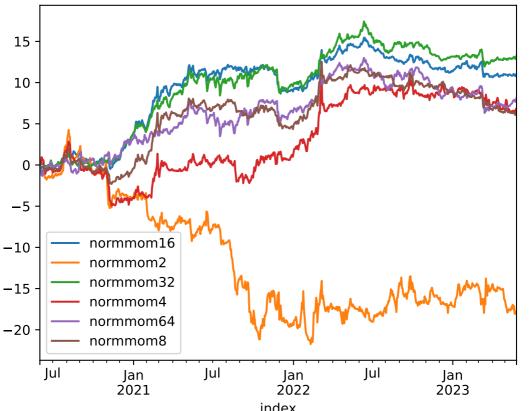
ann. mean {'normmom16': -3.263, 'normmom2': -0.342, 'normmom32': -2.502, 'normmom4': -1.825, 'normmom64': -3.522, 'normmom8': -4.799} ann. std {'normmom16': 2.546, 'normmom2': 7.565, 'normmom32': 2.843, 'normmom4': 4.365, 'normmom64': 3.862, 'normmom8': 2.903} ann. SR {'normmom16': -1.28, 'normmom2': -0.05, 'normmom32': -0.88, 'normmom4': -0.42, 'normmom64': -0.91, 'normmom8': -1.65}



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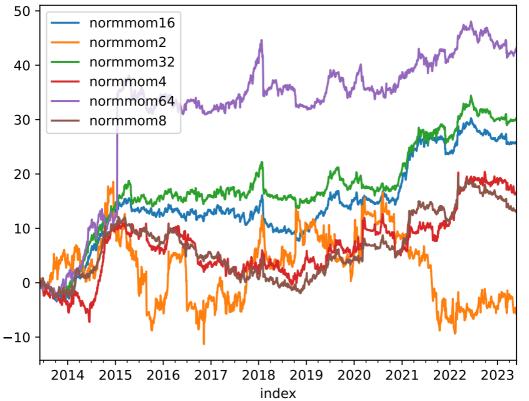
Total Trading Rule P&L for period '3Y'

ann. mean {'normmom16': 3.64, 'normmom2': -5.936, 'normmom32': 4.357, 'normmom4': 2.256, 'normmom64': 2.677, 'normmom8': 2.108} ann. std {'normmom16': 3.514, 'normmom2': 8.683, 'normmom32': 3.881, 'normmom4': 5.424, 'normmom64': 4.265, 'normmom8': 3.948} ann. SR {'normmom16': 1.04, 'normmom2': -0.68, 'normmom32': 1.12, 'normmom4': 0.42, 'normmom64': 0.63, 'normmom8': 0.53}



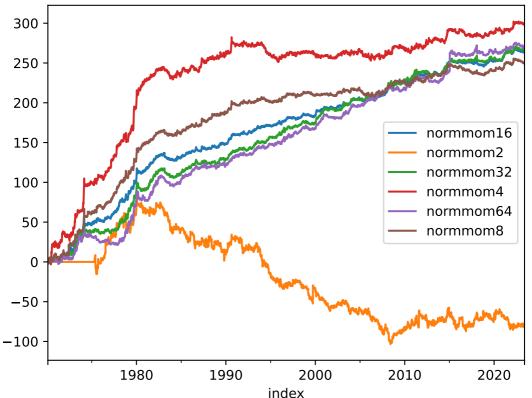
Total Trading Rule P&L for period '10Y'

ann. mean {'normmom16': 2.543, 'normmom2': -0.559, 'normmom32': 2.074, 'normmom4': 1.641, 'normmom64': 4.245, 'normmom8': 1.31} ann. std {'normmom16': 3.457, 'normmom2': 10.319, 'normmom32': 3.614, 'normmom4': 5.447, 'normmom64': 8.277, 'normmom8': 3.872} ann. SR {'normmom16': 0.74, 'normmom2': -0.05, 'normmom32': 0.82, 'normmom4': 0.3, 'normmom64': 0.51, 'normmom8': 0.34}



Total Trading Rule P&L for period '99Y'

ann. mean {'normmom16': 4.856, 'normmom2': -1.504, 'normmom32': 4.915, 'normmom4': 5.494, 'normmom64': 4.985, 'normmom8': 4.594} ann. std {'normmom16': 4.529, 'normmom2': 11.603, 'normmom32': 4.606, 'normmom4': 7.38, 'normmom64': 5.866, 'normmom8': 5.361} ann. SR {'normmom16': 1.07, 'normmom2': -0.13, 'normmom32': 1.07, 'normmom4': 0.74, 'normmom64': 0.85, 'normmom8': 0.86}



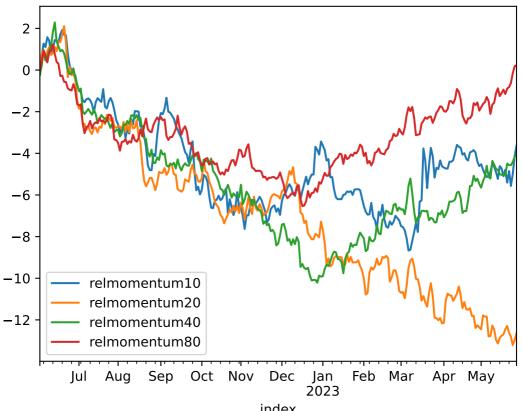
Total Trading Rule P&L for period 'YTD'

ann. mean {'relmomentum10': -0.485, 'relmomentum20': -13.06, 'relmomentum40': 14.365, 'relmomentum80': 13.88} ann. std {'relmomentum10': 7.84, 'relmomentum40': 6.423, 'relmomentum40': 5.272, 'relmomentum80': 4.384} ann. SR {'relmomentum10': -0.06, 'relmomentum20': -2.03, 'relmomentum40': 2.72, 'relmomentum80': 3.17}



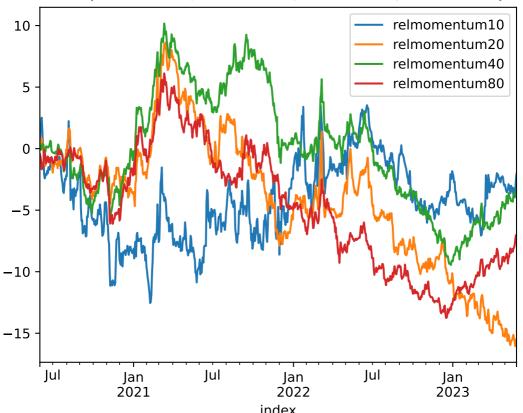
Total Trading Rule P&L for period '1Y' ann. mean {'relmomentum10': -3.618, 'relmomentum20': -12.591, 'relmomentum40': -4.015, 'relmomentum80': 0.231}

ann. mean {'relmomentum10': -3.618, 'relmomentum20': -12.591, 'relmomentum40': -4.015, 'relmomentum80': 0.231, ann. std {'relmomentum10': 7.288, 'relmomentum20': 6.339, 'relmomentum40': 5.306, 'relmomentum80': 4.628} ann. SR {'relmomentum10': -0.5, 'relmomentum20': -1.99, 'relmomentum40': -0.76, 'relmomentum80': 0.05}



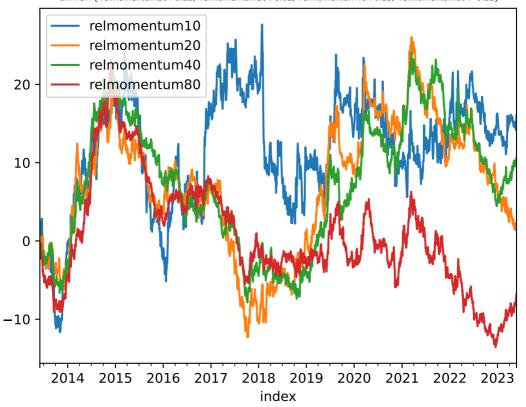
Total Trading Rule P&L for period '3Y'

ann. mean {'relmomentum10': -0.666, 'relmomentum20': -5.086, 'relmomentum40': -1.077, 'relmomentum80': -2.298} ann. std {'relmomentum10': 1.968, 'relmomentum20': 8.393, 'relmomentum40': 6.987, 'relmomentum80': 6.325} ann. SR {'relmomentum10': -0.06, 'relmomentum40': -0.15, 'relmomentum80': -0.36}}



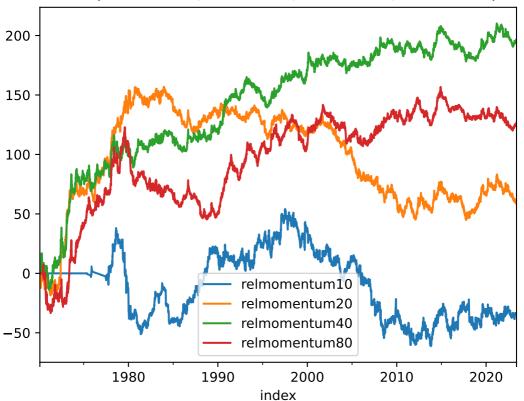
Total Trading Rule P&L for period '10Y'

ann. mean {'relmomentum10': 1.584, 'relmomentum20': 0.189, 'relmomentum40': 1.045, 'relmomentum80': -0.669} ann. std {'relmomentum10': 1.382, 'relmomentum20': 8.532, 'relmomentum40': 6.992, 'relmomentum80': 6.344} ann. SR {'relmomentum10': 0.12, 'relmomentum20': -0.11}

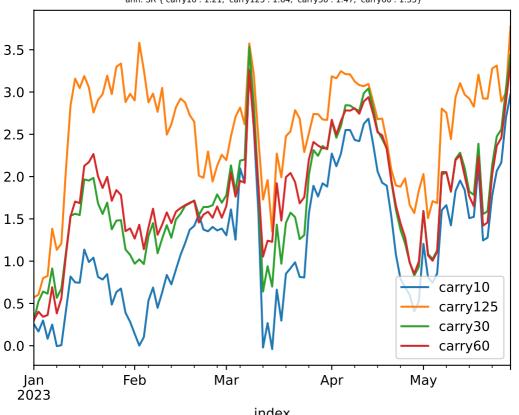


Total Trading Rule P&L for period '99Y'

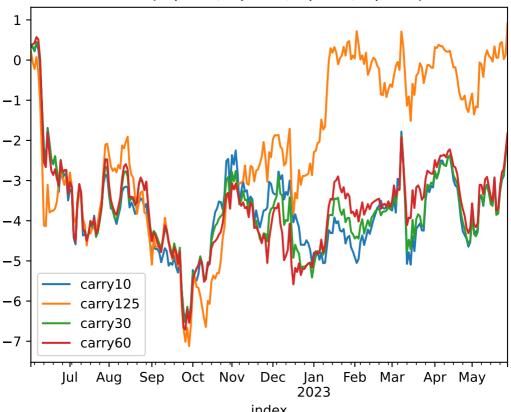
ann. mean {'relmomentum10': -0.615, 'relmomentum20': 1.088, 'relmomentum40': 3.621, 'relmomentum80': 2.333} ann. std {'relmomentum10': 13.381, 'relmomentum20': 10.463, 'relmomentum40': 9.633, 'relmomentum80': 9.777} ann. SR {'relmomentum10': -0.05, 'relmomentum20': 0.1, 'relmomentum40': 0.38, 'relmomentum80': 0.24}



Total Trading Rule P&L for period 'YTD' ann. mean {'carry10': 7.25, 'carry125': 9.205, 'carry30': 8.384, 'carry60': 8.147} ann. std {'carry10': 6.011, 'carry125': 5.609, 'carry30': 5.684, 'carry60': 5.272} ann. SR {'carry10': 1.21, 'carry125': 1.64, 'carry30': 1.47, 'carry60': 1.55}



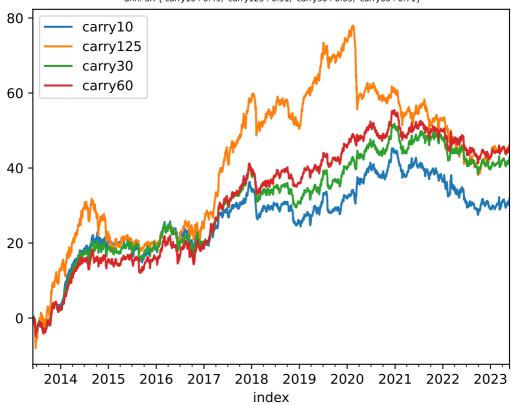
Total Trading Rule P&L for period '1Y'
ann. mean {'carry10': -2.071, 'carry125': 0.908, 'carry30': -1.966, 'carry60': -1.814}
ann. std {'carry10': 5.973, 'carry125': 6.371, 'carry30': 5.948, 'carry60': 5.893}
ann. SR {'carry10': -0.35, 'carry125': 0.14, 'carry30': -0.33, 'carry60': -0.31}



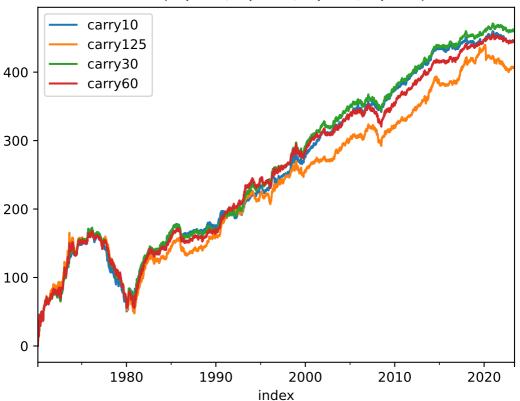
Total Trading Rule P&L for period '3Y' ann. mean {'carry10': -2.453, 'carry125': -5.292, 'carry30': -0.897, 'carry60': -1.465} ann. std {'carry10': 6.563, 'carry125': 8.034, 'carry30': 6.498, 'carry60': 6.498} ann. SR {'carry10': -0.37, 'carry125': -0.66, 'carry30': -0.14, 'carry60': -0.23}



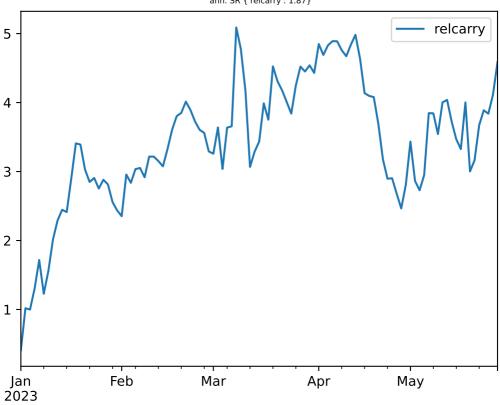
Total Trading Rule P&L for period '10Y' ann. mean {'carry10': 3.139, 'carry125': 4.534, 'carry30': 4.228, 'carry60': 4.533} ann. std {'carry10': 6.378, 'carry125': 8.939, 'carry30': 6.463, 'carry60': 6.406} ann. SR {'carry10': 0.49, 'carry125': 0.51, 'carry30': 0.65, 'carry60': 0.71}



Total Trading Rule P&L for period '99Y'
ann. mean {'carry10': 8.218, 'carry125': 7.512, 'carry30': 8.509, 'carry60': 8.22}
ann. std {'carry10': 11.195, 'carry125': 11.551, 'carry30': 11.252, 'carry60': 11.255}
ann. SR {'carry10': 0.73, 'carry125': 0.65, 'carry30': 0.76, 'carry60': 0.73}

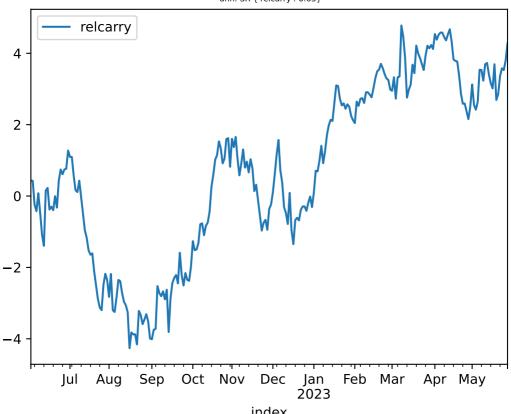


Total Trading Rule P&L for period 'YTD' ann. mean {'relcarry': 11.186} ann. std {'relcarry': 5.975} ann. SR {'relcarry': 1.87}

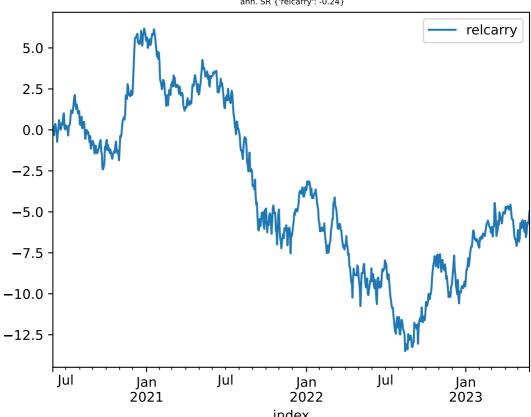


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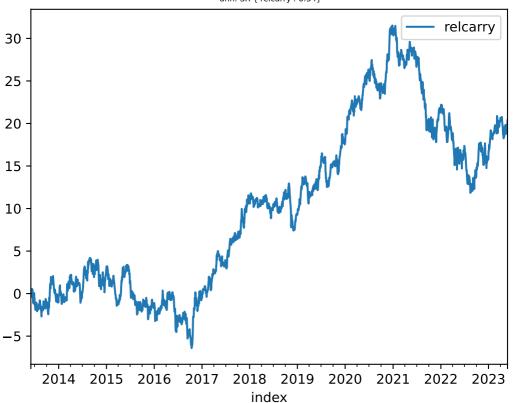
Total Trading Rule P&L for period '1Y' ann. mean {'relcarry': 4.263} ann. std {'relcarry': 6.757} ann. SR {'relcarry': 0.63}



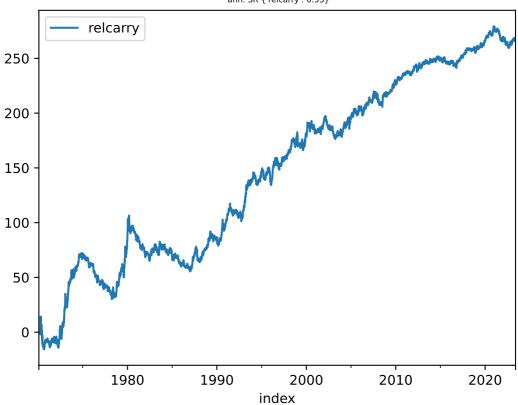
Total Trading Rule P&L for period '3Y' ann. mean {'relcarry': -1.629} ann. std {'relcarry': 6.726} ann. SR {'relcarry': -0.24}



Total Trading Rule P&L for period '10Y' ann. mean {'relcarry': 2.003} ann. std {'relcarry': 5.83} ann. SR {'relcarry': 0.34}

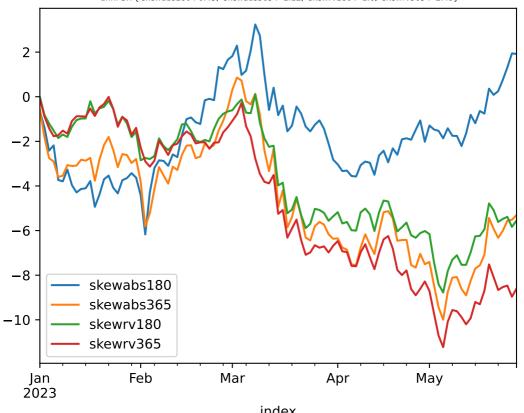


Total Trading Rule P&L for period '99Y' ann. mean {'relcarry': 4.932} ann. std {'relcarry': 8.957} ann. SR {'relcarry': 0.55}

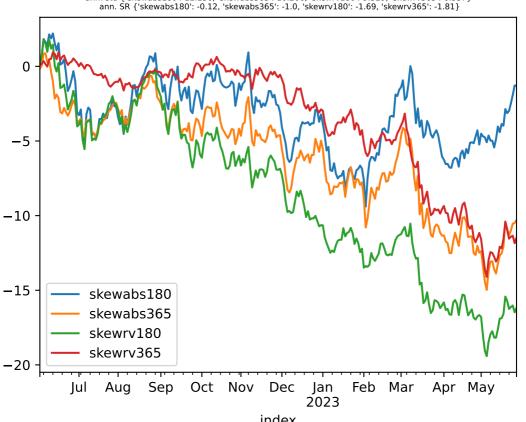


Total Trading Rule P&L for period 'YTD'

ann. mean {'skewabs180': 4.681, 'skewabs365': -12.936, 'skewrv180': -13.53, 'skewrv365': -20.982} ann. std {'skewabs180': 10.879, 'skewabs365': 11.591, 'skewrv180': 8.442, 'skewrv365': 8.416} ann. SR {'skewabs180': 0.43, 'skewabs365': -1.12, 'skewrv180': -1.6, 'skewrv365': -2.49}

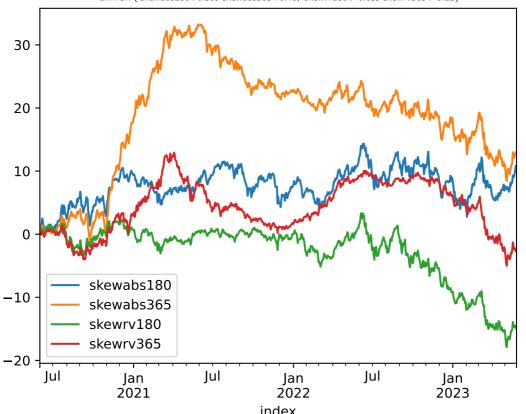


Total Trading Rule P&L for period '1Y' ann. mean {'skewabs180': -1.296, 'skewabs365': -10.242, 'skewrv180': -16.126, 'skewrv365': -11.442} ann. std {'skewabs180': 11.156, 'skewabs365': 10.206, 'skewrv180': 9.529, 'skewrv365': 6.337}

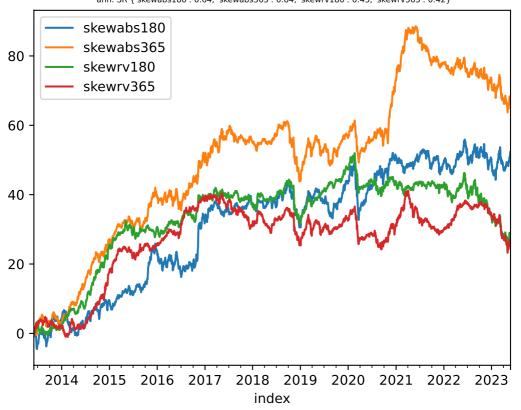


Total Trading Rule P&L for period '3Y'

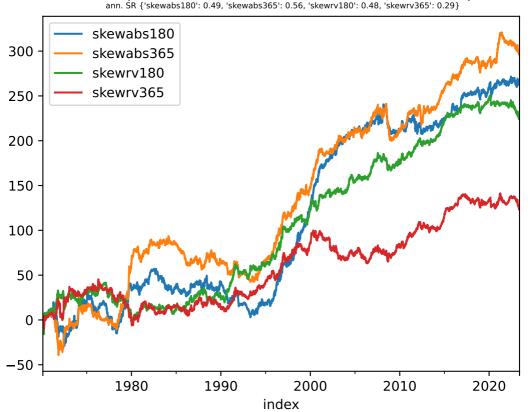
ann. mean {'skewabs180': 3.564, 'skewabs365': 4.313, 'skewrv180': -4.822, 'skewrv365': -0.779} ann. std {'skewabs180': 9.177, 'skewabs365': 9.072, 'skewrv180': 7.4, 'skewrv365': 6.54} ann. SR {'skewabs180': 0.39, 'skewabs365': 0.48, 'skewrv180': -0.65, 'skewrv365': -0.12}



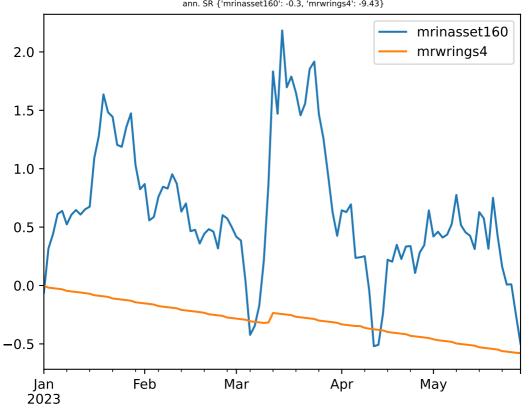
Total Trading Rule P&L for period '10Y'
ann. mean {'skewabs180': 5.146, 'skewabs365': 6.721, 'skewrv180': 2.775, 'skewrv365': 2.542}
ann. std {'skewabs180': 8.041, 'skewabs365': 7.989, 'skewrv180': 6.438, 'skewrv365': 6.099}
ann. SR {'skewabs180': 0.64, 'skewabs365': 0.84, 'skewrv180': 0.43, 'skewrv365': 0.42}



Total Trading Rule P&L for period '999'
ann. mean {'skewabs180': 4.932, 'skewabs365': 5.535, 'skewrv180': 4.182, 'skewrv365': 2.317}
ann. std {'skewabs180': 10.098, 'skewabs365': 9.871, 'skewrv180': 8.752, 'skewrv365': 8.127}
ann. SR {'skewabs180': 0.49, 'skewabs365': 0.56, 'skewrv180': 0.48, 'skewrv365': 0.29}



Total Trading Rule P&L for period 'YTD' ann. mean {'mrinasset160': -1.217, 'mrwrings4': -1.412} ann. std {'mrinasset160': -0.69, 'mrwrings4': -0.15} ann. SR {'mrinasset160': -0.3, 'mrwrings4': -9.43}



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Total Trading Rule P&L for period '1Y' ann. mean {'mrinasset160': 0.826, 'mrwrings4': -0.974} ann. std {'mrinasset160': 4.738, 'mrwrings4': 0.578} ann. SR {'mrinasset160': 0.17, 'mrwrings4': -1.69}



Total Trading Rule P&L for period '3Y' ann. mean {'mrinasset160': 5.347, 'mrwrings4': -1.029} ann. std {'mrinasset160': 6.281, 'mrwrings4': 1.019} ann. SR {'mrinasset160': 0.85, 'mrwrings4': -1.01}



Total Trading Rule P&L for period '10Y' ann. mean {'mrinasset160': -0.536, 'mrwrings4': -1.281} ann. std {'mrinasset160': 6.174, 'mrwrings4': 0.88} ann. SR {'mrinasset160': -0.09, 'mrwrings4': -1.46}



Total Trading Rule P&L for period '99Y' ann. mean {'mrinasset160': -3.585, 'mrwrings4': -2.19} ann. std {'mrinasset160': 9.861, 'mrwrings4': 2.086} ann. SR {'mrinasset160': -0.36, 'mrwrings4': -1.05}

