Our measure of aggregate equity positioning surged to a six-month high this week (z score 0.56, 79th percentile), after having moved sideways in a tight range since mid-December. Positioning while clearly elevated is not yet extreme. The latest move was driven by discretionary investor positioning which climbed well into the top quintile (z score 0.72, 87th percentile), while systematic strategies positioning continued to steadily move higher (z score 0.52, 73rd percentile). Across sectors, positioning in Tech (73rd percentile) rose further and is the only one notably above historical average. Meanwhile, equity funds received strong inflows (+$18bn) this week, with the US ($5bn) unsurprisingly seeing strong inflows but the rest being driven by an unusually large inflow into China funds ($12bn), the largest in almost 9 years. Across sectors, already strong inflows into Tech funds ($2.8bn) picked up even further to a 5-month high. Strong inflows into bond funds continued ($14bn), but with credit funds seeing inflows slow while government bond funds saw an acceleration.

Positioning and flows detail

- **Under discretionary investor positioning,**
  - Total net call volume (call minus put volume, 5d ma) rose sharply again this week (84th percentile), driven by increases for single stocks. While net call volume in ETF options also increased modestly, that in index options declined. Within single stock options, net call volume rose across all sector groups this week, but most notably in cyclical and mega cap growth & Tech stocks. S&P 500 options skew (3m, 90%-110%) declined this week, while the implied correlation amongst S&P 500 stocks declined to near record lows.
  - Investor sentiment (bull minus bear spread) was largely unchanged this week (63rd percentile). Both bullish responses (58th percentile) and bearish responses (35th percentile) declined modestly, while neutral responses rose (65th percentile).

- **Under systematic strategies positioning,**
  - **Vol control funds** modestly increased their equity exposure above the 70% mark (80th percentile) to just below historical maximums.
  - **CTA** allocations to equities fell this week but remain a little above historical average (58th percentile). The move was driven by another drop in European equity allocations (63rd percentile). In US equities (53nd percentile), positioning rose slightly for the S&P 500 (56th percentile) and the Nasdaq 100 (48th percentile) while that in...
Investor Positioning and Flows

the Russell 2000 (48th percentile) went sideways. Japanese equity longs also moved sideways (60th percentile) while CTAs continued to cut their EM equity shorts (29th percentile). Aggregate bond allocations turned down but remain slightly long (38th percentile). The move was driven by rising shorts across the curve in the US. In FX, dollar shorts were cut slightly but positioning is still in its bottom quartile historically (25th percentile). The move was driven by CAD longs dropping to neutral (69th percentile) and EUR positions turning slightly short (56th percentile). AUD longs also fell (63th percentile). Positioning in other currencies moved sideways. Finally in commodities, oil shorts increased slightly and positioning remains very low (21st percentile); gold longs moved sideways and remain elevated (79th percentile).

- **Risk Parity** gross exposure moved up slightly this week but remains extremely low (9th percentile) due to high correlation among asset classes and still elevated bond vol. Gross equity exposure rose slightly but is still below average (32nd percentile) with US equity exposure moving sideways (46th percentile) while that in other developed markets (31nd percentile) and EM (26th percentile) ticking higher. Bond exposure remains extremely low (4th percentile) with that in both US bonds (4th percentile) and the rest of the world (5th percentile) moving sideways at extreme lows. Inflation linked bond positioning (11th percentile) ticked up while commodities positioning moved sideways and is above average (60th percentile).

- **Sector positioning**: Across our measures of absolute equity positioning for sectors, that in Technology (z score 0.43, 73rd percentile) is the only one well above average and rose further this week. Positioning in Financials (z score 0.17, 60th percentile) also moved higher and is above average but only modestly so. Positioning in Consumer Staples dropped this week to neutral (z score 0.0, 53rd percentile). Positioning in Energy (z score -0.11, 60th percentile) remains modestly below average, while that in Communication Services (z score -0.20, 53rd percentile) rose this week but is also modestly below average. Positioning in Consumer Discretionary (z score -0.34, 42nd percentile), Industrials (z score -0.35, 40th percentile), Healthcare (z score -0.52, 27th percentile) and Real estate (z score -0.54, 23rd percentile) is notably below average. Positioning in Materials (z score -0.77, 20th percentile) and Utilities (z score -1.11, 5th percentile) is extremely low.

- **Weekly fund flows to ETFs & mutual funds**,
  - **Equity funds** ($17.6bn) received solid inflows, driven notably by China funds ($12.0bn), which received the biggest weekly inflows since July 2015, and the US ($5.3bn) which received robust inflows after two weeks of outflows. Broad-global funds ($1.8bn) and Japan ($0.5bn) also registered inflows. Meanwhile, Europe (-$1.9bn) continued to see outflows unabated (in 45 of the last 46 weeks). Across sectors, inflows to Technology ($2.8bn), which were already strong, accelerated to the highest in five months. Financials ($0.5bn) and Telecom ($0.1bn) received modest inflows. Flows to Real Estate were muted this week while other sectors suffered outflows, led by Energy and Materials with outflows of -$0.7bn each. Utilities saw outflows of -$0.6bn, whereas Consumer Goods, Industrials and Healthcare saw outflows of -$0.4bn each.
  - **Bond funds** ($14.2bn) saw a fifth consecutive week of strong inflows. Across categories, inflows to IG ($2.2bn) continued but slowed this week, while inflows to broad-mandate funds ($6.2bn)
and Govt bonds ($4.9bn) accelerated. HY ($0.8bn) received modest inflows again. EM bonds (-$0.9bn) and TIPS (-$0.4bn) saw outflows. Munis ($0.4bn) received inflows at a slower pace than last week, while MBS ($0.7bn) and Bank Loans ($0.1bn) also absorbed inflows.

- **Money Market funds** ($7.4bn) received inflows this week. US ($5.4bn) and Japan ($1.3bn) received inflows, whereas Europe (-$0.8bn) and broad-global (-$0.6bn) saw modest outflows.

- **CFTC Update.** Aggregate longs in US equity net futures ticked down this week but remain elevated and near the top of the historical range. The move was led by a drop in net longs for the S&P 500 while those in the Russell 2000 and the Nasdaq 100 went sideways. Aggregate bond net shorts moved down slightly but remain very elevated. 2y and 5y net shorts rose while 10y net shorts fell. 3m SOFR net longs rose. In FX, dollar net shorts fell again this week led by a fall in EUR net longs and increases in AUD, JPY, and CHF net shorts. CAD net shorts fell while GBP net longs were flat and remain near all-time highs. In commodities, oil net longs rose slightly but remain near the bottom of their historical ranges while gold net longs fell and both silver and platinum positions flipped from net long to short. Copper net shorts increased slightly.
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- Equity Sentiment And Inflows Surge, Dec 15 2023
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- Discretionary Continues To Climb, Nov 24 2023
- Unwinding The Shocks, Not Pricing In Cyclical Upside, Nov 17 2023
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- Q4 2023 Earnings: Set Up For Big Beats, Jan 05 2024
- Outlook 2024: Solid Fundamentals Poor Perceptions, Nov 27 2023
- What Companies Are Saying: Resilient But Cautious Awaiting Better Visibility, Nov 15 2023
- Q3 2023 Global Earnings Chart Pack, Nov 03 2023
- Q3 2023 Earnings Takes: Third Straight Quarter Of Solid Sequential Growth, Oct 27 2023
- Q3 Earnings Preview: Looking For A New High, Oct 06 2023
- Now Come The Tests, Sep 14 2023
- What Companies Are Saying: Better Demand But Don’t Say Green Shoots, Aug 10 2023
- Q2 2023 Global Earnings Chart Pack, Aug 4 2023
- Q2 Takes: Underlying Earnings At A New High, Jul 28 2023
- Q2 Earnings: Looking For A Second Straight Quarter Of Sequential Growth, Jul 5 2023
- Skeptical Of The Liquidity Scare, Jun 5 2023
- After The Squeeze: Looking For A Choppy Grind Higher, June 2 2023
Consolidated Equity Positioning

Figure 1: Consolidated equity positioning

![Consolidated Equity Positioning](image1)

*Weights based on explanatory power in regression of equity performance on indicators

Current percentile: 79%

Source: Deutsche Bank Asset Allocation

Figure 2: Discretionary vs Systematic strategies divide

![Discretionary vs Systematic Equity Positioning](image2)

*Weights based on explanatory power in regression of equity performance on indicators

Current percentiles
Discretionary: 87%
Systematic: 73%

Source: Deutsche Bank Asset Allocation

Figure 3: All equity positioning indicators

![Equity Positioning Indicators](image3)

*Sign reversed as indicator is negatively correlated with the S&P 500

Source: Deutsche Bank Asset Allocation

Figure 4: Discretionary investors positioning vs ISM Manufacturing

![Discretionary Investors Equity Positioning and ISM Mfg](image4)

Correlation: 67%

*Weights based on explanatory power in regression of equity performance on indicators

Source: ISM, Haver, Deutsche Bank Asset Allocation

1. Equity positioning indicators include: CTA portfolio weight, Risk-Parity portfolio weight, Vol control allocation, L/S HF beta, active MF beta, AAII Bull-Bear spread, cash equity median shorts, ETF short interest, equity futures positions, net call volume, S&P 500 option skew. More details can be found in Appendix.

Sector Positioning

**Figure 5: Equity positioning across sectors**

- Sector positioning measure (Weighted average z-score of indicators)
- Positioning wtd z score, lhs
- Latest percentile, rhs

Data as of Jan 25 2024

Source: Deutsche Bank Asset Allocation

**Figure 6: Financials positioning**

- Financials positioning (Weighted average z-score of indicators)
- Median
- 10th/90th percentile
- Current percentile: 60%

Source: Deutsche Bank Asset Allocation

**Figure 7: Energy positioning**

- Energy positioning (Weighted average z-score of indicators)
- Median
- 10th/90th percentile
- Current percentile: 60%

Source: Deutsche Bank Asset Allocation

**Figure 8: Technology positioning**

- Technology positioning (Weighted average z-score of indicators)
- Median
- 10th/90th percentile
- Current percentile: 73%

Source: Deutsche Bank Asset Allocation

**Figure 9: Consumer Discretionary positioning**

- Consumer Discretionary positioning (Weighted average z-score of indicators)
- Cons Disc positioning
- Median
- 10th/90th percentile
- Current percentile: 42%

Source: Deutsche Bank Asset Allocation

**Figure 10: Materials positioning**

- Materials positioning (Weighted average z-score of indicators)
- Median
- 10th/90th percentile
- Current percentile: 20%

Source: Deutsche Bank Asset Allocation

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3 Sector positioning indicator includes: Net call volume, cash equity median shorts, sector fund flows, active MF excess return correlation and Sell-side analyst consensus targets. More details can be found in Appendix.
Another since the creation of Communication sector

*Z score for fund flows is based on two windows; one for the earlier Telecom sector and another since the creation of Communication sector.

Source: Deutsche Bank Asset Allocation

**Figure 12: Communication Services positioning**

(Weighted average z-score of indicators)

**Source:** Deutsche Bank Asset Allocation

**Figure 13: Consumer Staples positioning**

(Weighted average z-score of indicators)

Source: Deutsche Bank Asset Allocation

**Figure 14: Healthcare positioning**

(Weighted average z-score of indicators)

Source: Deutsche Bank Asset Allocation

**Figure 15: Utilities positioning**

(Weighted average z-score of indicators)

Source: Deutsche Bank Asset Allocation

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(Weighted average z-score of indicators)

Source: Deutsche Bank Asset Allocation
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Figure 18: Recent trends in fund flows across asset classes and categories

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

4 Detailed fund flows charts are shown in the sections Cross-Asset Fund Flows, Equity Fund Flows, Bond Fund Flows
vFLARE: Volatility-Sensitive Systematic Strategies

Systematic strategies equity positioning

Figure 19: Systematic strategies positioning

*Weights based on explanatory power in regression of equity performance on indicators

Source: Bloomberg Finance LP, Deutsche Bank Asset Allocation

Figure 20: Vol-Control equity allocations

Data as of 25-Jan-2024

Source: SEC filings, Bloomberg Finance LP, Deutsche Bank Asset Allocation

Figure 21: CTAs exposure to equities

Latest data as of 25-Jan-2024

Source: Bloomberg Finance LP, Deutsche Bank Asset Allocation

Figure 22: Risk-Parity portfolio weight in equity

Data as of 24-Jan-2024

Source: Bloomberg Finance LP, Deutsche Bank Asset Allocation

5 More details can be found in Appendix
Vol control funds allocations

Figure 23: Vol-Control funds equity allocations

Vol control funds estimated equity allocation

Current percentile: 80%

Data as of 25-Jan-2024

Source: SEC filings, Bloomberg Finance LP, Deutsche Bank Asset Allocation

Figure 24: Vol control funds equity allocation and estimated observed equity volatility

Vol metric* (inverted on lhs)

Equity allocation (rhs)

Allocation current percentile: 80%

Data as of 25-Jan-2024

Source: SEC filings, Bloomberg Finance LP, Deutsche Bank Asset Allocation

Figure 25: Vol metrics breakdown

Vol control funds total est equity vol

Time-wtd RV metrics

VIX based metrics

Model implied target vol

Data as of 25-Jan-2024

Source: Bloomberg Finance LP, Deutsche Bank Asset Allocation

Figure 26: Vol control funds sensitivity to a 2% market sell-off

Potential selling by vol control funds on 2% equity selloff

($ bn)

Data as of 25-Jan-2024

Source: SEC filings, Bloomberg Finance LP, Deutsche Bank Asset Allocation

Vol funds total equity allocation tries to mimic the equity rebalancing behavior of a sample of 25 Vol funds following a constant target volatility strategy.
CTA portfolio weights

These are model-based portfolio weights, and take into account for each asset class the momentum trend signal, volatility, and cross asset correlations. The model is designed to follow movements in CTA benchmark indices.
26 January 2024

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Risk Parity funds portfolio weights

Figure 33: Risk-Parity portfolio weight in equity

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Figure 35: Risk-Parity portfolio weight in bonds

Figure 36: Risk-Parity portfolio weight in US inflation-linked bonds

Figure 37: Risk-Parity portfolio weight in Commodity

Figure 38: Risk-Parity portfolio weight in US REITs

Source: Bloomberg Finance LP, Deutsche Bank Asset Allocation

8 These are our model-based portfolio weights calculated to balance the risk contribution across different asset classes (equities, bonds, commodities), using volatility and cross asset correlations. The model is designed to follow movements in risk-parity benchmark indices.
**Custom Baskets Performance**

**Figure 39: Early and Mid US Macro Cycle baskets performance**

![Early and Mid cycle basket performance](image)

Latest data for 25-Jan-2024

*Source: Bloomberg Finance LP, Deutsche Bank Asset Allocation*

**Figure 40: Late and End US Macro Cycle baskets performance**

![Late and End cycle basket performance](image)

Latest data for 25-Jan-2024

*Source: Bloomberg Finance LP, Deutsche Bank Asset Allocation*

**Investor Sentiment**

**Figure 41: Investor bull minus bear spread**

![AAII Investor sentiment Bull minus Bear spread](image)

Current percentile (since 1987): 63%

Data as of 24-Jan-2024

*Source: Barron's, Haver Analytics, Deutsche Bank Asset Allocation*

**Figure 42: Investor bullish sentiment**

![AAII Bullish Sentiment (%)](image)

Current percentile (since 1987): 58%

Data as of 24-Jan-2024

*Source: Barron's, Haver Analytics, Deutsche Bank Asset Allocation*

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9. Long/Short baskets with top 50 names deemed to outperform during each phase of the business cycle. More details in the report [US Equity Strategy - Phase Of Cycle Baskets, Stay Long Late Cycle - Jan 09 2019](#).

10. Investor sentiment (Bull minus Bear spread) from the AAII Investor Sentiment Survey.
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Figure 43: Cash equities plus ETFs short interest

Figure 44: Median cash shorts taken as % of shares outstanding for S&P 500, Russell 2000 and Nasdaq 100

Figure 45: Russell 3000 sector wise short interest

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11 Single stocks and ETFs short interest aggregate (price*shorted shares) across the Russell 3000 universe, taken as % of overall Russell 3000 market cap.
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ETF vs cash stock volumes (5d ma, $bn)

- ETF volume (lhs)
- Cash stock volume (rhs)

Latest data for 25-Jan-2024

Source: Bloomberg Finance LP, Deutsche Bank Asset Allocation

**Figure 50: Total options call+put volume**

Total option volume (5d ma, thousands)

Data as of 25-Jan-2024

Source: CBOE, Haver Analytics, Deutsche Bank Asset Allocation

**Figure 51: US equity futures volumes**

Equity futures volumes (5d ma, $bn)

- (generic 1st futures in SPX, NDX, R2K, EM & EAFE)

Data as of 25-Jan-2024

Source: Bloomberg Finance LP, Deutsche Bank Asset Allocation

**Figure 52: On-screen ES1 futures liquidity**

Average daily ES1 Bid/Ask contracts size (10d rolling avg)

Latest data for 25-Jan-2024

Source: Deutsche Bank Asset Allocation

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12 ETF Volume: Bottom up aggregate of volumes for more than 1300 equity ETF; Cash Volume: Total volume (US TAPE A+B+C) minus ETF volume

13 Futures Volume: 5-day rolling average of generic 1st futures volume across ES1, RTY1, NQ1, MES1 and MFS1 index.
Investor Positioning and Flows

Option Metrics

Figure 53: Net bullish opened option volume for all customers

Net bullish opened option strategies
(Equity+Index+ETFs, million contracts)

-10 0 10 20 30 40
Sep-18 Jan-19 May-19 Sep-19 Jan-20 May-20 Sep-20 Jan-21 May-21 Sep-21 Jan-22 May-22 Sep-22 Jan-23 May-23 Sep-23 Jan-24

Source: OCC, Deutsche Bank Asset Allocation

Figure 54: Net bullish opened option volume by customer category

Figure 55: Equity put/call volume ratio

Put/Call volume ratio (5d ma) = -- Average since 2006: 0.94 Current percentile (since 2010): 40%

-6 0 6 12 18 24 30 36 42
Jan-10 Jan-11 Jan-12 Jan-13 Jan-14 Jan-15 Jan-16 Jan-17 Jan-18 Jan-19 Jan-20 Jan-21 Jan-22 Jan-23 Jan-24

Source: CBOE, Haver Analytics, Deutsche Bank Asset Allocation

Figure 56: Equity put vs call volumes

Total Put vs Call volume (5d ma, thousands)

-5000 -4000 -3000 -2000 -1000 0 1000 2000 3000 4000 5000

Source: CBOE, Haver Analytics, Deutsche Bank Asset Allocation

14 Net Bullish Opened option volumes: Difference between newly opened aggregate bullish contracts (buying a new Call or writing a Put) minus newly opened aggregate bearish contracts (buying a new Put or writing a Call).

15 Put/Call volume ratio (5d ma): 5-day rolling average of the ratio of total put volume to total call volume across single stocks, indices and ETPs.
Investor Positioning and Flows

**Figure 57: Total net call volume**

![Total net call volume (5d ma, thousands)](image)

Data as of 25-Jan-2024

Source: CBOT, Haver Analytics, Deutsche Bank Asset Allocation

**Figure 58: Net call volume of single stocks, Index and ETFs**

![Net call volume of single stocks, Index and ETFs](image)

Data as of 25-Jan-2024

Source: CBOT, Haver Analytics, Deutsche Bank Asset Allocation

**Figure 59: Call volume of single stocks, Index and ETPs**

![Call volumes: Single stocks vs index vs ETPs](image)

Data as of 25-Jan-2024

Source: CBOT, Haver Analytics, Deutsche Bank Asset Allocation

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![Put Volumes: Single stocks vs index vs ETPs](image)

Data as of 25-Jan-2024

Source: CBOT, Haver Analytics, Deutsche Bank Asset Allocation

**Figure 61: All stocks net call volume across sector groups**

![All stocks net call* volume](image)

Data as of 25-Jan-2024

Source: OCC, Axioma, Deutsche Bank Asset Allocation

**Figure 62: S&P 500 stocks net call volume across sector groups**

![S&P 500 stocks net call* volume](image)

Data as of 25-Jan-2024

Source: OCC, Axioma, Deutsche Bank Asset Allocation
Investor Positioning and Flows

Figure 63: Put-call ratio of Open interest for S&P 500

Data as of 25-Jan-2024

Source: Deutsche Bank Asset Allocation, OptionMetrics, Bloomberg Finance LP

16 Put-call ratio of Open interest: Ratio of put to call open interest for S&P 500 and SPY ETF

Figure 64: Relative performance of a basket of stocks with the highest call volume in # of contracts

Relative performance (May 29 2020 = 100)

Top 50 stocks call volume (in # contracts) basket/Russell 3000 EW

Equal weighted basket, weekly rebalance; Data as of 25-Jan-2024

Source: OCC, Compustat, Deutsche Bank Asset Allocation
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Figure 66: 3M implied vol and skew

Equity funds beta to the S&P 500

Figure 67: Blended mutual funds beta to the S&P 500

Figure 68: Equity L/S HFs beta to the S&P 500

17 Equity mutual funds and L/S Hedge Index (HFRXEH) rolling 1-month and 3-month beta to the S&P 500.
Cross-Asset Fund Flows

Figure 69: Summary of fund flows across categories

4w avg fund flows across categories (as % of assets)
(Z-score based on last 1yr avg)

Latest data for 24-Jan

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Figure 70: Recent trends in fund flows across asset classes and categories

Fund flows across categories (as % of assets)
(13w avg flows, Z-scores based on last 1y avg)

Current level
Z-score of 13w avg flows, as % of AUM

Latest data for 24-Jan

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation
Investor Positioning and Flows

Figure 71: Flows across major asset classes last 4 weeks

Figure 72: Flows across major asset classes in last 12 months

Figure 73: Cross-asset flows last 4 weeks

Figure 74: Cross-asset flows in last 12 months

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation
Equity Fund Flows

Figure 75: Recent trends in fund flows across equity fund categories

Fund flows across equity categories (as % of assets)
(13w avg flows, Z-scores based on last 1y avg)

- BELOW AVERAGE but RISING
- ABOVE AVERAGE and RISING
- BELOW AVERAGE and SLOWING
- ABOVE AVERAGE but SLOWING

Latest data for 24-Jan

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Figure 76: Regional equity fund flows last 4 weeks

Regional equity flows (last 4 weeks, % of assets)

Latest data as of 24-Jan-2024

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Figure 77: Equity flows across regions

Cumulative equity flows (last 12m, weekly, $bn)

*Funds with a global mandate;
Latest data as of 24-Jan-2024

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation
Figure 78: Sector fund flows last 4 weeks

Figure 79: Sector fund flows

Figure 80: US equity flows into thematic funds last 4 weeks

Figure 81: US equity flows into thematic funds
Investor Positioning and Flows

Bond Fund Flows

Figure 82: Recent trends in fund flows across bond fund categories

Fund flows across bond categories (as % of assets)
(13w avg flows, Z-scores based on last 1y avg)

<table>
<thead>
<tr>
<th>Category</th>
<th>Z-score</th>
<th>Current level</th>
<th>4 week change in Z-score</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM Local curr</td>
<td>-0.6</td>
<td>0.0</td>
<td>-0.4</td>
</tr>
<tr>
<td>Broad-mandate bonds</td>
<td>-0.4</td>
<td>0.0</td>
<td>-0.2</td>
</tr>
<tr>
<td>Int term bonds</td>
<td>-0.6</td>
<td>0.0</td>
<td>-0.4</td>
</tr>
<tr>
<td>ST bonds</td>
<td>-0.8</td>
<td>0.0</td>
<td>-0.6</td>
</tr>
<tr>
<td>TIPS</td>
<td>-1.0</td>
<td>0.0</td>
<td>-1.0</td>
</tr>
<tr>
<td>EM blend curr</td>
<td>-0.4</td>
<td>0.0</td>
<td>-0.2</td>
</tr>
<tr>
<td>MBS</td>
<td>-0.6</td>
<td>0.0</td>
<td>-0.4</td>
</tr>
<tr>
<td>LT bonds</td>
<td>-0.8</td>
<td>0.0</td>
<td>-0.6</td>
</tr>
<tr>
<td>Govt Bonds</td>
<td>-1.0</td>
<td>0.0</td>
<td>-1.0</td>
</tr>
<tr>
<td>US Govt</td>
<td>-0.8</td>
<td>0.0</td>
<td>-0.6</td>
</tr>
<tr>
<td>Europe Govt</td>
<td>-0.6</td>
<td>0.0</td>
<td>-0.4</td>
</tr>
</tbody>
</table>

Latest data for 24-Jan

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Figure 83: Bond fund flows by category last 4 weeks

Figure 84: Bond flows by category

Cumulative bond flows (last 12m, weekly, $bn)

Latest data as of 24-Jan-2024

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Deutsche Bank Securities Inc.
Investor Positioning and Flows

Figure 85: Bond fund flows by maturity last 4 weeks

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Figure 86: Bond fund flows by maturity

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Figure 87: Credit fund flows to US and Europe last 4 weeks

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Figure 88: Credit fund flows to US and Europe

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Figure 89: Bond fund flows across regions last 4 weeks

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation

Figure 90: Bond fund flows across regions

Source: EPFR, Haver Analytics, Deutsche Bank Asset Allocation
Cross-Asset Futures Positioning

Figure 91: Cross-asset futures positioning

- Net long positions* (as % of Open interest) (z score; since 2010)

*Non commercial positions in FX and bonds; (Asset managers + Lev funds) in equities; Managed Money in commodities

Positioning data as of 23 Jan 2024

Source: CFTC, Bloomberg Finance LP, Haver Analytics, Deutsche Bank Asset Allocation

Figure 92: Week-over-week changes in futures positioning

- Weekly change in net positions* (as % of Open interest)

*Non commercial positions in FX and bonds; (Asset managers + Lev funds) in equities; Managed Money in commodities

Positioning data as of 23 Jan 2024

Source: CFTC, Bloomberg Finance LP, Haver Analytics, Deutsche Bank Asset Allocation
Investor Positioning and Flows

Equity Futures Positioning

Figure 93: Aggregate US equity futures positioning

Figure 94: Aggregate US equity futures and S&P 500 ratio to its 200d ma

Figure 95: Aggregate US equity futures and ISM Manufacturing

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Figure 97: Current US equity futures positioning

Figure 98: US equity futures positioning by Asset managers and Leveraged funds
Investor Positioning and Flows

Figure 99: S&P 500 futures positioning

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 100: S&P 500 futures positioning by Asset managers and Leveraged funds

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 101: Russell 2000 futures positioning

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 102: Russell 2000 futures positioning by Asset managers and Leveraged funds

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 103: Nasdaq 100 futures positioning

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 104: Nasdaq 100 futures positioning by Asset managers and Leveraged funds

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation
Investor Positioning and Flows

Figure 105: EM equity futures positioning

MSCI EM net long futures contracts (thous)
- Asset mgrs + Leveraged funds (lhs)
- MSCI EM (rhs)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 106: EM equity futures positioning by Asset managers and Leveraged funds

MSCI EM net futures contracts (thous)
- Asset managers
- Leveraged funds

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation
Bond Futures Positioning

Figure 107: Aggregate bond futures positioning in thousand contracts

Positioning data as of 23 Jan 2024; 2y futures are multiplied by a factor of 2 to be consistent with other Treasury futures contracts which have face value of $100k; contracts are wtd by effective duration based on 10y equivalents while aggregation.

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 108: Aggregate bond futures positioning in % of open interest terms

Positioning data as of 23 Jan 2024; contracts are wtd by effective duration based on 10y equivalents while aggregation.

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 109: Bond futures positioning by maturity

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 110: Bond futures positioning by maturity

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 111: 30d Fed Fund futures positioning

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 112: 30d Fed Fund futures positioning by Asset managers and Leveraged funds

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation
Investor Positioning and Flows

Figure 113: SOFR futures positioning

3m SOFR futures positions vs SOFR

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 114: SOFR futures positioning by Asset managers and Leveraged funds

3m SOFR net futures positions
(thous contracts)

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 115: 2y treasury notes futures positioning

2y bond futures vs 2y yield

*2y futures have face value of $200k; contracts are multiplied by a factor of 2 to be consistent with other Treasury futures contracts which have face value of $100k

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 116: 2y treasury notes futures positioning by Asset managers and Leveraged funds

2y bonds net futures positions
(thous contracts)

*2y futures have face value of $200k; contracts are multiplied by a factor of 2 to be consistent with other Treasury futures contracts which have face value of $100k

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 117: 5y treasury notes futures positioning

5y bond futures vs 5y yield

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 118: 5y treasury notes futures positioning by Asset managers and Leveraged funds

5y bonds net futures positions
(thous contracts)

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

*2y futures have face value of $200k; contracts are multiplied by a factor of 2 to be consistent with other Treasury futures contracts which have face value of $100k
Investor Positioning and Flows

Figure 119: 10y treasury notes futures positioning

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 120: 10y treasury notes futures positioning by Asset managers and Leveraged funds

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 121: 15-25y treasury bonds futures positioning

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 122: 15-25y treasury bonds futures positioning by Asset managers and Leveraged funds

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 123: 25y+ treasury bonds futures positioning

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 124: 25y+ treasury bonds futures positioning by Asset managers and Leveraged funds

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation
Investor Positioning and Flows

FX Futures Positioning

Figure 125: US trade weighted dollar positioning

![Trade wtd dollar futures positions vs USTWI](chart)

Trade wtd positions in JPY, EUR, GBP, AUD, CHF and CAD
Positioning data as of 23 Jan 2024
Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 126: Major currency futures positioning

![FX Non commercial net long futures positions](chart)

Positioning data as of 23 Jan 2024
Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 127: Currency futures positioning

![Currency positioning as % of open interest](chart)

Positioning data as of 23 Jan 2024
Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 128: Currency futures positioning by Asset managers and Leveraged funds

![Currency positioning as % of open interest](chart)

Positioning data as of 23 Jan 2024
Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 129: US trade weighted dollar positioning

![Trade wtd dollar futures positions vs USTWI](chart)

Trade wtd positions in JPY, EUR, GBP, AUD, CHF and CAD
Positioning data as of 23 Jan 2024
Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 130: US trade weighted dollar positioning by Asset managers and Leveraged funds

![Trade wtd dollar net long futures positions](chart)

Trade wtd positions in JPY, EUR, GBP, AUD, CHF and CAD
Positioning data as of 23 Jan 2024
Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation
Investor Positioning and Flows

Figure 131: Euro futures positions

![Euro futures positions vs EURUSD](image)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 132: Euro futures positioning by Asset managers and Leveraged funds

![Euro net long futures positions](image)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 133: Yen futures positions

![JPY futures positions vs USDJPY](image)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 134: Yen futures positioning by Asset managers and Leveraged funds

![JPY net long futures positions](image)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 135: Sterling futures positions

![GBP futures positions vs GBPUSD](image)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 136: Sterling futures positioning by Asset managers and Leveraged funds

![GBP net long futures positions](image)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation
Investor Positioning and Flows

Figure 137: Canadian dollar futures positions

Figure 138: Canadian dollar futures positioning by Asset managers and Leveraged funds

Figure 139: Aussie dollar futures positions

Figure 140: Aussie dollar futures positioning by Asset managers and Leveraged funds

Figure 141: Swiss franc futures positions

Figure 142: Swiss franc futures positioning by Asset managers and Leveraged funds

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation
Investor Positioning and Flows

Figure 143: New Zealand dollar futures positions

NZD futures positions vs USDNZD
- Non commercial net long contracts (thous, lhs)
- USDNZD (inv, rhs)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 144: New Zealand dollar futures positioning by Asset managers and Leveraged funds

NZD net long futures positions
- (thous contracts)
- Asset Managers
- Leveraged funds

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 145: Mexican peso futures positions

MXN futures positions vs USDMXN
- Non commercial net long contracts (thous, lhs)
- USDMXN (inv, rhs)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 146: Mexican peso futures positioning by Asset managers and Leveraged funds

MXN net long futures positions
- (thous contracts)
- Asset Managers
- Leveraged funds

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 147: Brazilian real futures positions

BRL futures positions vs USDBRL
- Non commercial net long contracts (thous, lhs)
- USDBRL (inv, rhs)

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation

Figure 148: Brazilian real futures positioning by Asset managers and Leveraged funds

BRL net long futures positions
- (thous contracts)
- Asset Managers
- Leveraged funds

Positioning data as of 23 Jan 2024

Source: CFTC, Haver Analytics, Deutsche Bank Asset Allocation
Investor Positioning and Flows

Commodity Futures Positioning

Figure 149: Oil futures positioning

Figure 150: Oil futures gross longs and shorts

Figure 151: Copper futures positioning

Figure 152: Gold futures positioning

Figure 153: Energy futures positioning

Figure 154: Precious metals futures positioning

Note: Net positions of combined WTI and Brent crude oil positions
Positioning data as of 23 Jan 2024

Source: CFTC, Bloomberg Finance LP, Haver Analytics, Deutsche Bank Asset Allocation

Source: CFTC, Bloomberg Finance LP, Haver Analytics, Deutsche Bank Asset Allocation

Source: CFTC, Bloomberg Finance LP, Haver Analytics, Deutsche Bank Asset Allocation

Source: CFTC, Bloomberg Finance LP, Deutsche Bank Asset Allocation
Investor Positioning and Flows

**Figure 155: Industrial metals futures positioning**

- Copper
- Steel

Positioning data as of 23 Jan 2024

Source: CFTC, Bloomberg Finance LP, Deutsche Bank Asset Allocation

**Figure 156: Agri commodities futures positioning**

- Corn
- Wheat
- Soybean

Positioning data as of 23 Jan 2024

Source: CFTC, Bloomberg Finance LP, Deutsche Bank Asset Allocation
# Buybacks Tracker

**Figure 157: S&P 500 weekly announced buybacks**

Weekly Announced Buybacks: S&P 500

- **Weekly amount ($bn, lhs)**
- **3m sum ($bn, rhs)**
- **$146bn**

**Source**: Bloomberg Finance LP, Deutsche Bank Asset Allocation

**Figure 158: S&P 500 sectors announced buybacks**

- **Announced Buybacks (Last 3m)**
  - **% of Mkt Cap (lhs)**
  - **$bn (rhs)**

**Source**: Bloomberg Finance LP, Deutsche Bank Asset Allocation

**Figure 159: S&P 500 announced and actual buybacks**

- **S&P 500 Buybacks ($bn)**
  - **Announced (3m sum)**
  - **Actual Gross Buybacks (Qtrly)**
  - **Correl since 2000: 79%**

**Source**: Bloomberg Finance LP, Deutsche Bank Asset Allocation

**Figure 160: Buyback baskets performance**

- **DB Buyback Alpha basket (DBUSALBK) TRI relative to S&P 500 TRI**
  - **Correl since 2000: 79%**

**Source**: Bloomberg Finance LP, Deutsche Bank Asset Allocation

# DB S&P 500 Forecasts

**DB S&P 500 forecasts**

- **S&P 500 2024 target**: 5100
- **S&P 500 2024 EPS**: $250
Appendix

Aggregate Equity Positioning Indicator

- **Vol control funds equity allocation (Systematic).** Vol funds total equity allocation tries to mimic the equity rebalancing behavior of a sample of 25 Vol funds following a constant target volatility strategy. More details can be found in the report ‘*Derivatives Spotlight: Vol Control Products Disentangled: A Driver of Low-to-High Vol Transitions – 24 Aug 2016*’

- **CTAs equity weight (Systematic).** These are model-based portfolio weights, and take into account for each asset class the momentum trend signal, volatility, and cross asset correlations. The model is designed to follow movements in CTA benchmark indices.

- **Risk parity funds equity portfolio weight (Systematic).** These are our model-based portfolio weights calculated to balance the risk contribution across different asset classes (equities, bonds, commodities), using volatility and cross asset correlations. The model is designed to follow movements in risk parity benchmark indices.

- **Equity futures (Systematic/Discretionary).** Aggregate net long futures (long minus short contracts) for Asset managers and Leveraged funds in the S&P 500, Nasdaq 100, Russell 2000, S&P 400 and DJIA index, taken as a percentage of their open interest. Data from CFTC’s Traders in Financial Futures report.

- **Net call volume (Discretionary).** Total net call volume (call minus put) across single stocks, indices and ETPs. Data from the Chicago Board Options Exchange.

- **S&P 500 3m option skew (Discretionary).** S&P 500 options skew (90%-110% moneyness implied volatility spread, 3-month maturity) from Bloomberg. Indicator is negatively correlated with the S&P 500, and the z-score values are multiplied by -1 before inclusion in the composite.

- **Investor Bull minus Bear spread (Discretionary).** Investor sentiment (Bull minus Bear spread) from the AAII Investor Sentiment Survey.

- **Cash equity median shorts (Discretionary).** Median of Russell 3000 universe shorted shares, taken as % of outstanding shares. Indicator is negatively correlated with the S&P 500, and the z-score values are multiplied by -1 before inclusion in the composite.

- **ETFs short interest (Discretionary).** Aggregate short interest (price*shorted shares) of more than 100 largest equity ETFs in the US, taken as % of overall Russell 3000 market cap. Indicator is negatively correlated with the S&P 500, and the z-score values are multiplied by -1 before inclusion in the composite.
Investor Positioning and Flows

- **IMX Retail positioning index (Discretionary).** TD Ameritrade Investor Movement Index (IMX) which gauges the sentiment of retail investors.

- **MFs holdings beta (Discretionary).** The equity beta of the holdings of a sample of broad active equity mutual funds (excluding cash) taken from their quarterly 13F filings. The beta of the holdings to S&P 500 returns is calculated over a 3 year window.

**Sectors Equity Positioning**

- As an extension of the aggregate equity positioning, the sector positioning measure is also a weighted average of Z-scores across different sector level positioning indicators. The indicator weights are based on the explanatory power of each variable in a regression with movements in the S&P 500 sectors. More details can be found in the report ‘Investor Positioning and Flows - Looking Across Sectors, Jul 7 2023’

Below is the list of indicators used in the aggregate sector positioning measure

- **Net call volume.** Net call volume (call minus put) across single stocks and sector ETFs averaged out over the last one month. Data from the OCC.

- **Sector fund flows:** Fund flows to sector based ETFs and mutual funds, taken as a percentage of AUM, and averaged out for the last 13 weeks. Data from EPFR.

- **Cash equity median shorts.** A de-trended median of Russell 3000 sector shorted shares, taken as % of outstanding shares. Indicator is negatively correlated with the S&P 500 sector performance, and the z-score values are multiplied by -1 before inclusion in the composite.

- **Active MFs excess return correlation.** Rolling 3-month correlation of the excess returns of a representative sample of US blended mutual funds with S&P 500 sector excess returns (both relative to the S&P 500).

- **Analyst consensus target.** Analysts current 12-month target price for the S&P 500 sector, taken as a ratio to its 200d ma. Data from Bloomberg.
Appendix 1

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*Other information available upon request

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<tr>
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<th>Equity rating dispersion and banking relationships</th>
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<tr>
<td>Buy: Based on a current 12-month view of TSR, we recommend that investors buy the stock.</td>
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<tr>
<td>Sell: Based on a current 12-month view of TSR, we recommend that investors sell the stock.</td>
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<tr>
<td>Hold: We take a neutral view on the stock 12-months out and, based on this time horizon, do not recommend either a Buy or Sell.</td>
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<td>TSR = Total Shareholder Return. Percentage change in share price from current price to projected target price plus projected dividend yield</td>
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Investor Positioning and Flows

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