

# Regime Change in US Equities

Why AI Stock Sensitivity to Credit Spreads and Financial Conditions Demands Multi-Factor Risk Analysis



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### Contents

1. Why the Environment Has Changed for AI Stocks
2. Why Single-Factor Correlation Analysis Is Insufficient
3. Book-Level Exposure Is Not Index-Level Exposure
4. The February 2026 Case Study: Measuring Before the Move
5. What This Means for Portfolio Risk Management Now
6. Running the Analysis on Your Portfolio
7. Frequently Asked Questions



## Regime Change in US Equities

A quiet but consequential shift has taken place in how AI-related equities respond to the broader environment. For much of the past two years, semiconductor and AI infrastructure stocks traded primarily on earnings expectations, capital-deployment narratives and momentum. Credit spreads and financial conditions were background noise. That has changed.

Over the last three months, Quant Insight's analysis shows that capex-intensive AI names — with semiconductor exposure (SOXX) as a representative proxy — have become materially more sensitive to financial conditions. The mechanism is direct: AI infrastructure buildout is increasingly debt-financed, and as that financing dependency grows, the stocks carrying it become more exposed to the cost and availability of credit. This is not a sentiment observation. It is measurable in the factor loadings, and it has direct implications for how you size and hedge these positions today.

### 1. Why the Environment Has Changed for AI Stocks

The scale of AI-related capital expenditure has been well documented. The financing structure behind it has received less attention. Industry reporting through mid-2026 has highlighted that a growing share of AI capex is being funded through debt rather than retained earnings or equity issuance alone. That structural shift has a specific consequence for risk management: it creates a direct transmission channel between credit-market conditions and equity valuations in this sector.

When companies fund large, long-duration capital programmes with debt, their equity becomes more sensitive to changes in borrowing costs. A widening in credit spreads raises the cost of rolling or extending that debt; tighter financial conditions compress the present value of future cash flows. Both effects hit simultaneously when the environment deteriorates — and they do not arrive independently.

Quant Insight's MFERM analysis of SOXX exposures shows that a one-standard-deviation combined increase in borrowing costs and tightening of US financial conditions produces a large negative impact on the index. More specifically, a 63 basis-point widening in US CDX HY credit spreads — the kind of move that can occur over two to three trading days in a stressed environment — is associated with an approximately 17% drawdown in SOXX when the credit shock is assessed through MFERM's correlation-adjusted multi-factor framework.



That figure is significant on its own. But the more important analytical point is where that 17% actually comes from.

### 2. Why Single-Factor Correlation Analysis Is Insufficient

The instinct when you see a credit-spread-driven drawdown is to measure the direct credit sensitivity and stop there. That approach systematically understates the risk.

In Quant Insight's MFERM-based stress test of the SOXX scenario, the direct credit-spread leg accounts for less than half of the total estimated impact. More than half of the damage arrives through other factors that co-move with credit spreads in a stressed environment: rates, growth expectations, liquidity proxies, risk appetite. These are not independent channels. They move together, and the correlations between them are not stable across regimes.

A single-factor correlation view cannot see this. It captures the direct exposure to credit spreads but misses the indirect, correlated pass-through effects that account for the majority of the total drawdown. Worse, it can assign the wrong sign to some of those indirect effects if the correlation structure was estimated in a benign regime and is now being applied to a stress scenario.

MFERM addresses this through its variance-covariance matrix, which captures the joint behaviour of macro factors at the individual-security level. When you run a credit-spread shock through the model, the output reflects not just the direct sensitivity but the full correlated response across all factors that historically co-move with credit in a tightening environment. That is the number you need to size your exposure correctly.

The practical implication is straightforward. If you manage a portfolio with meaningful semiconductor or AI infrastructure weight and rely on a single-factor correlation estimate to assess your credit-spread exposure, you may be understating your actual drawdown risk by more than half. That gap is not a rounding error. It is the difference between a manageable stress scenario and a portfolio-level event.



### 3. Book-Level Exposure Is Not Index-Level Exposure

The SOXX figure is a useful illustration, but it is not your number. Every portfolio's actual exposure to this regime shift differs from the index-level estimate — sometimes materially.

Your book's sensitivity to a credit-spread widening depends on which specific names you hold, how they are weighted, what other factor exposures they carry, and how those exposures interact with your existing hedges. A portfolio concentrated in a handful of large-cap semiconductor names will have a different credit-sensitivity profile than one with broader AI infrastructure exposure spread across software, hardware and hyperscaler positions. A long/short book with short positions in rate-sensitive names may carry partial natural offsets — or unintended amplifiers. The index-level scenario tells you this risk is worth measuring. It does not tell you what your risk actually is.

The only way to know your actual exposure is to run your specific book through MFERM's factor decomposition. Quant Insight's solution covers the S&P 500 and Qi's regional universes (US, Europe, APAC and Global), updated daily, so the factor exposures you work with reflect the current environment rather than a quarterly snapshot. In a regime where sensitivities are shifting as quickly as they have in AI-related equities over the past three months, that daily update cadence is not a minor feature. It is what makes the analysis actionable.

### 4. The February 2026 Case Study: Measuring Before the Move

The analytical framework described above is not theoretical. Quant Insight applied the same multi-factor, correlation-adjusted stress-testing methodology in late February 2026, ahead of the market stress that followed in March.

At that point, MFERM flagged elevated sensitivity to the prevailing environment in a representative long-only portfolio, proxied by an S&P 100 equal-weighted construction. Small allocation adjustments, informed by the factor-exposure analysis, reduced losses by 163 basis points in March alone compared with the unadjusted portfolio. For a long/short strategy — using the Goldman Sachs VIP versus Most-Shorted baskets as a proxy — the improvement was 130 basis points over the



same period.

These figures come from a point-in-time simulation run before the stress event, using the factor exposures and variance-covariance structure available at the time. There was no back-fitting; no names were changed after the fact. The portfolio construction was fixed at the time of the analysis, and the outcome reflects what that analysis would have produced in real time. Simulated and past performance is not a reliable indicator of future results.

The purpose of citing this is not to claim predictive accuracy. Quant Insight does not predict markets and does not generate trading signals. The purpose is to illustrate what precise, timely measurement of macro factor exposure enables: the ability to make small, deliberate allocation adjustments that reduce a portfolio's sensitivity to a specific stress scenario before that scenario materialises.

163 basis points in a single month is not a trivial outcome for a long-only fund. For a long/short book, 130 basis points of relative improvement from modest positioning changes reflects the practical value of knowing your actual factor exposures rather than estimating them from index-level proxies or single-factor correlations.

### 5. What This Means for Portfolio Risk Management Now

The regime shift in AI stock sensitivity to financial conditions is not a call to reduce sector exposure. It is a call to measure that exposure with the precision the current environment demands. Three questions are worth answering for your book right now.

#### **What is your actual credit-spread sensitivity?**

Not the index-level estimate, not the single-factor correlation. The full, correlated, multi-factor sensitivity of your specific holdings, sized and weighted as they currently sit.



### **How much of your exposure is environment-driven versus genuine idiosyncratic alpha?**

MFERM's decomposition separates macro-driven returns from stock-specific returns at the individual-security level. In an environment where financial conditions are increasingly driving the sector, knowing how much of your recent performance in these names is macro beta versus genuine alpha matters for both attribution and risk management.

### **Are you monitoring regime shifts in real time?**

Quant Insight's Macro Share of Risk (MSR) provides a live reading of the proportion of S&P 500 risk currently explained by macro factors. When that reading shifts, the relationship between your factor exposures and your portfolio outcomes changes. The MSR is the early-warning indicator that tells you when the correlation structure underlying your risk model needs to be re-examined.

These are measurement questions, not trading recommendations. The answers inform how you size positions, where you hedge, and how you communicate risk to your investment committee or risk-oversight function.

## **6. Running the Analysis on Your Portfolio**

The February 2026 case study showed that small, informed adjustments — grounded in precise factor-exposure data — can meaningfully reduce drawdown in a stress scenario. The same analytical capability is available now, applied to the current environment and your specific book.

MFERM's stress-testing framework lets you specify a macro scenario — a 63 basis-point CDX HY widening, a one-standard-deviation tightening of financial conditions, or a custom combination — and see the full correlated impact across your portfolio, decomposed by factor and by security. That output tells you where your exposure is concentrated, which positions are driving the sensitivity, and what adjustments would most efficiently reduce it.

MFERM was built by former macro portfolio managers who designed it to answer exactly these questions. It completes, rather than competes with, your existing risk stack — whether that is Barra, Axioma or Northfield — by adding what those models



were not built to provide: daily macro-versus-idiosyncratic decomposition at the single-stock level, with a correlation-adjusted stress-testing capability that reflects how macro factors actually behave together in a tightening environment.

If the AI capex financing story continues to develop as current conditions suggest, the sensitivity of semiconductor and AI infrastructure stocks to credit spreads and financial conditions is unlikely to diminish in the near term. Measuring that sensitivity precisely, at the book level, is the starting point for managing it.

### 7. Frequently Asked Questions

#### **What is driving the increased sensitivity of AI stocks to credit spreads in 2026?**

The primary driver is the shift toward debt-financed AI capital expenditure. As companies fund large infrastructure programmes through borrowing rather than retained earnings alone, their equity valuations become more exposed to changes in borrowing costs and broader financial conditions. This creates a direct transmission channel from credit markets to AI and semiconductor stock prices that was less pronounced when capex was primarily equity-financed.

#### **Why is a single-factor credit-spread correlation insufficient for measuring this risk?**

A single-factor view captures only the direct sensitivity to credit spreads. In a stress scenario, more than half of the total drawdown impact arrives through other factors that co-move with credit — including rates, growth expectations, liquidity conditions and risk appetite. These indirect, correlated pass-through effects can be missed entirely, or assigned the wrong sign, if you rely on a single-factor estimate. MFERM's multi-factor, variance-covariance approach captures the full correlated response.



### **How does MFERM calculate the impact of a credit-spread widening on a portfolio?**

MFERM uses each security's individual macro factor loadings and the variance-covariance matrix of macro factors to estimate the full, correlation-adjusted impact of a specified stress scenario. For a 63 basis-point CDX HY widening, the model calculates the direct credit-spread impact plus the correlated response across all other macro factors that historically co-move with credit in a tightening environment, applied to your specific holdings and weights.

### **What is the difference between index-level and book-level macro exposure?**

Index-level figures — such as the SOXX estimate cited in this guide — represent the average sensitivity across the index's constituents. Your portfolio's actual exposure depends on which specific securities you hold, how they are weighted, what other factor exposures they carry, and how your existing hedges interact with those exposures. Book-level measurement through MFERM is the only way to know your actual risk.

### **What was the February 2026 case study, and what does it demonstrate?**

In late February 2026, ahead of the market stress that followed in March, Quant Insight ran point-in-time MFERM stress tests on representative portfolios. Small allocation adjustments informed by the factor analysis reduced losses by 163 basis points in March for a long-only S&P 100 proxy, and 130 basis points for a long/short strategy. The simulation was run before the stress event with no back-fitting and no changes made after the fact. It demonstrates the practical value of precise, timely macro factor measurement in reducing drawdown exposure before a stress scenario materialises. Simulated and past performance is not a reliable indicator of future results.

### **Does Quant Insight predict market movements or generate trading signals?**

No. Quant Insight is a measurement and risk-management solution. MFERM quantifies macro factor exposures and stress-tests portfolios against specified scenarios. It does not forecast market direction, predict credit-spread movements, or recommend specific trades. The output informs how you measure and manage existing exposures — not what positions to take.



### **How often are MFERM factor exposures updated, and why does that matter?**

MFERM updates factor exposures daily across the S&P 500 and Qi's regional universes. In an environment where macro sensitivities are shifting as quickly as they have in AI-related equities over recent months, daily updates ensure the factor loadings you use for stress testing and allocation decisions reflect current conditions rather than a lagged snapshot. Quarterly or monthly updates would miss exactly the kind of regime shift described in this guide.



### Conclusion

The regime shift in AI stock sensitivity to financial conditions is measurable, and it is unlikely to reverse while the sector's capex remains debt-financed. The question is not whether to hold these names — it is whether you are measuring their true, correlated exposure with the precision the environment now demands. That measurement, at the book level, is the starting point for managing it.

Learn more at **[quant-insight.com](https://quant-insight.com)**.



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