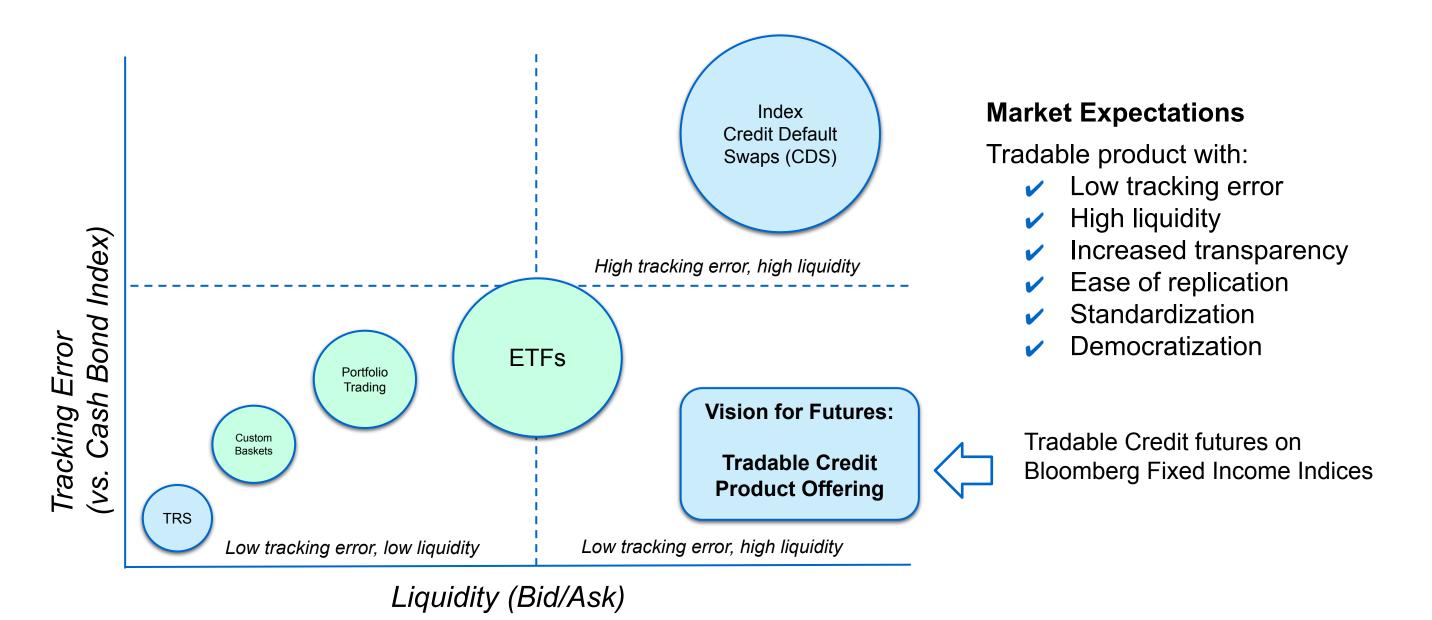
Credit Futures on Bloomberg U.S. Corporate Bond Indices

Tradable Credit Product Ecosystem – Liquidity vs. Tracking Error





Tradable Credit Product Comparison

	CME Credit Futures	ETFs	TRS	CDX
Return	Total or Spread*	Total	Total	Spread
Unfunded	✓	*	✓	✓
Interest Rate Risk	✓	✓	✓	
Can be shorted	✓	Borrow must be located	✓	✓
Exchange Traded	✓	✓		

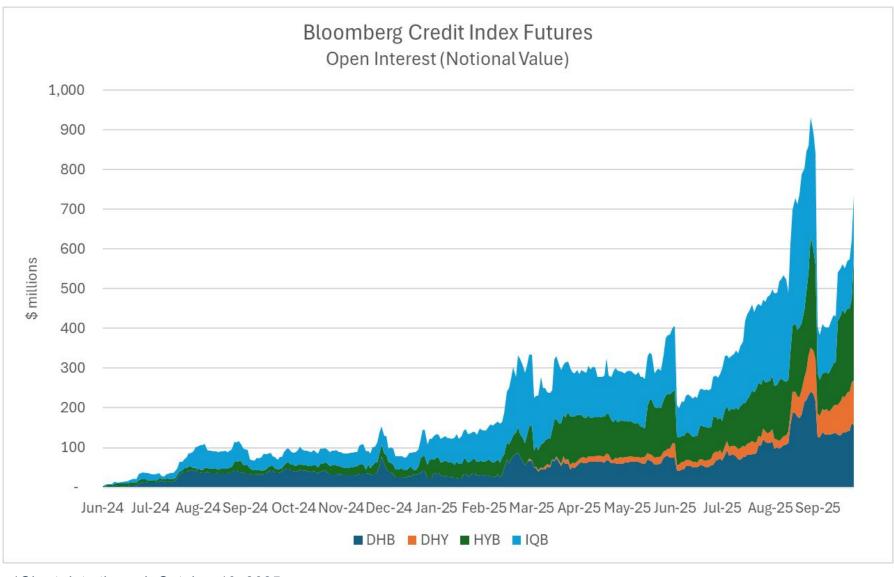
Value Propositions of Exchange-Listed Futures

- Leveraged exposure to the total return of the index with coupons reinvested
- Transparent order book with the ability to execute block trades bilaterally
- Centrally cleared with low trading and clearing costs
- Capital efficient margin offsets with significantly correlated products**
- No annual management fees
- No ISDA agreements across numerous counterparties



Activity Since Launch

- ADV over 2,900 contracts in Q3 2025
- Open interest exceeding 6,800 contracts (over \$730M notional) as of Oct 10, 2025
- Blocks and derived blocks complement best-in-class CLOB liquidity
- Customer segments that have traded:
 - Asset Managers
 - Hedge Funds
 - Banks
 - Non-Bank Broker-Dealers
 - PTFs
- Over 580,000 contracts traded since launch as of Oct 10, 2025



*Chart data through October 10, 2025.



CME Total Return Credit Futures – Contract Specifications

Contract Specifications	Bloomberg U.S. Corporate Investment Grade Index Futures	Bloomberg U.S. Corporate High Yield Very Liquid Index Futures				
Currency	USD	USD				
Commodity Code	Outright: IQB BTIC: IQBT	Outright: HYB BTIC: HYBT				
Underlying Index	Bloomberg U.S. Corporate Investment Grade Index	Bloomberg U.S. Corporate High Yield Very Liquid Index (VLI)				
Index Ticker (Bloomberg)	LUACTRUU Index	LHVLTRUU Index				
Index Description The contracts track the Bloomberg U.S. Corporate Investment Grade Duration Hedged Index, which is a duration-hedged version of the Bloomberg U.S. Corporate Bond Index, a broad benchmark of investment grade, fixed rate, taxable bonds.		A component of the US Corp High Yield Index designed to track a more liquid component of the USD, high yield, fixed-rate corporate bond market. Index uses the same eligibility criteria as the US Corp HY Index but includes only bonds that have a minimum amount outstanding of USD500mn and less than 5 years from issue date.				
Contract Unit	30 x Index Points	150 x Index Points				
Approximate Notional	~\$100,000	~\$100,000				
Minimum Price Increment	1/2 of 1 Index points (0.50 = \$15.00)	1/10 of 1 Index points (0.10 = \$15.00)				
Price Quotation	Inde	ex Points				
Minimum Block Size	50 contracts =	~\$5mm in notional				
Listing Schedule	Nearest 3 March Quarterly Months					
Last Trading Day / Final Settlement Day	Last trading day is the business day before the third Wednesday of the contract delivery month Final settlement day is the exchange business day immediately following the last trading day					
Daily Settle (mark-to-market)	4:00 ET (note: Rates F&O are settled at 3:00 while cash indexes are marked at 4:00)					
Final Settlement	Cash settled to the	ne closing Index Value				



CME Duration-Hedged Credit Futures – Contract Specifications

Contract Specifications	Bloomberg U.S. Corporate Investment Grade Duration-Hedged Index Futures	Bloomberg U.S. Corporate High Yield Very Liquid Duration Hedged Index Futures				
Currency	USD	USD				
Commodity Code	Outright: DHB	Outright: DHY				
Underlying Index	Bloomberg U.S. Corporate Investment Grade Duration Hedged Index	Bloomberg U.S. Corporate High Yield Very Liquid Duration Hedged Index				
Index Ticker (Bloomberg)	I30287US	I39131US				
Index Description	The index combines the LUACTRUU Index with an index of key rate duration-weighted short positions in Treasury futures across the curve (rebalanced monthly) to hedge duration	The index combines the LHVLTRUU Index with an index of key rate duration-weighted short positions in Treasury futures across the curve (rebalanced monthly) to hedge duration				
Contract Unit	500 x Index Points	750 x Index Points				
Approximate Notional	~\$100,000	~\$100,000				
Minimum Price Increment	1/20 of 1 Index points (0.05 = \$25.00)	1/50 of 1 Index points (0.02 = \$15.00)				
Price Quotation	Index F	Points				
Minimum Block Size	50 contracts = ~\$	5mm in notional				
Listing Schedule	Nearest 3 March Quarterly Months					
Last Trading Day / Final Settlement Day	Last trading day is the business day before the third Wednesday of the contract delivery month Final settlement day is the exchange business day immediately following the last trading day					
Daily Settle (mark-to-market)	4:00 ET (note: Rates F&O are settled at 3:0	00 while cash indexes are marked at 4:00)				
Final Settlement	Cash settled to the o	closing Index Value				



Why timing is right for Credit futures from CME Group and Bloomberg

Credit markets continue to expand and trade electronically

- US Corporate Bonds have \$46 billion daily volume in 2025 alongside growth in ETFs, Portfolio Trading, and other products.
- IG now 48% electronic, up from 20% six years ago at the start of 2019.

CME Group is the world's largest derivatives exchange

- US Treasury Futures have grown to over \$770 billion in daily volume (larger than the underlying cash Treasury market) with strong participation from institutional investors globally.
- Margin Offsets up to 75% for IG credit futures/Treasury futures and up to 60% for HY futures/S&P futures (subject to revision based on latest available data).

Bloomberg is the ideal index provider

- #1 index provider for Fixed Income ETFs and over \$6 trillion of AUM benchmarked by public funds
- · Broad range of capabilities, from market data to distribution
- Unique Terminal analytics to support the execution and portfolio management of Credit Futures
- Real-time pricing of US corporate bonds

E-Trading Over Time - Corporate Bonds





CME Credit Index Futures – Market Usage

Pensions / Insurance CTAs Prop Trading Firms Banks Asset Managers Mutual Funds

Potential Use Cases



Liquidity Management

- Quickly gain exposure to advantageous market moves - deploy capital quickly to reduce cash drag / efficiently liquidate holdings to pay portfolio liabilities.
- Use corp bond index futures as a 'liquidity sleeve' for smooth cash management for both mutual funds and ETFs.



Express Tactical View

- Quickly express short-term views on the market or take advantage of expected changes in market conditions utilizing corp bond index futures.
- Employ tactical portfolio overlays that provide market specific exposures (sectors, target duration).



Portfolio Hedging

- Manage investment risks (interest rate/credit) by executing hedging transactions with strong negative correlation due to low tracking error.
- Temporarily reduce market exposure or employ a macro-hedge efficiently with derivatives on corp bond indices.



Relative Value Trading

- Identify and capture arbitrage opportunities through relative value trading across corp bond index derivatives and other index-linked beta products.
- Intraday indicative pricing of liquid, tracker indices can support the identification of mispricing across credit instruments.



CME Group is the natural home for U.S. Credit Index Futures

CME Group is the largest exchange for fixed income derivatives

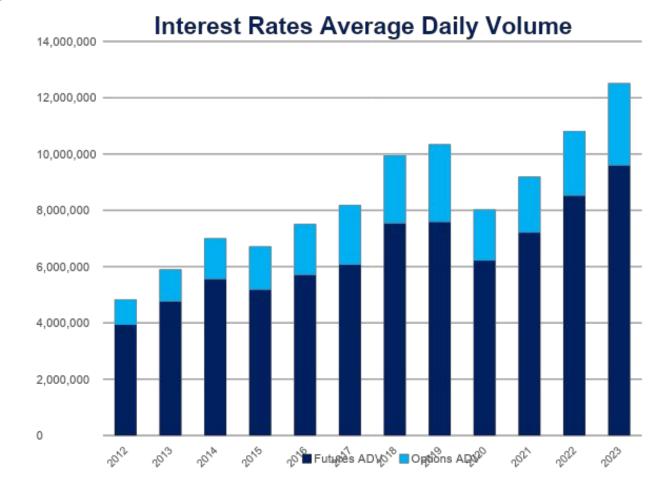
- Offer futures and options across the curve
- 2023 average daily volume of 13 million contracts
- US Treasury Futures open interest equates to \$2 trillion notional;
 average daily volume equates to \$500 billion notional

Strong track record of bringing new products to market:

- Ultra 10 Treasury futures, TBA futures, and Eris Swap futures
- SOFR futures and options, ESTR futures
- Equity Products including Adjusted Interest Rate Futures, Basis Trade-at-Index Close, Dividend Futures & more

Capital efficiencies for Credit Futures with Rates & Equities

- Margin offsets with other CME-cleared products from day 1 with other Rates products (such as 10-yr futures) and Equity products.*
- Initial analysis suggests margin offsets up to 70% for IG credit futures/Treasury futures and up to 50% for HY futures/S&P futures (subject to revision based on latest available data).



Source: CME Group

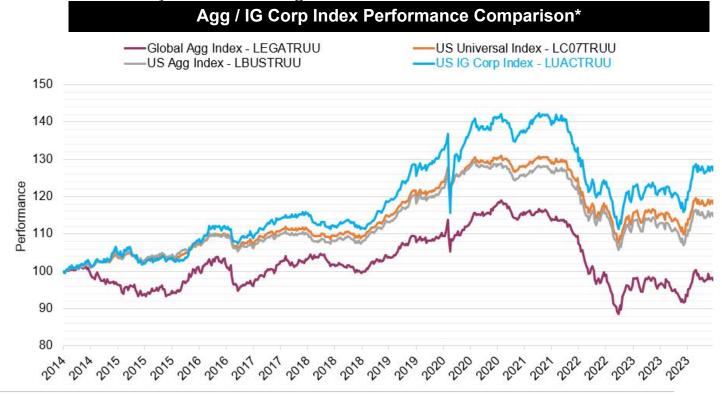


Bloomberg U.S. Corporate Investment Grade Index

	Bloomberg US Corp IG TR Index
Index Ticker	LUACTRUU
Inception Date	January 1, 1973
Currency	USD
Global Representation	Yes
Market Representation	Broad investment grade bond market
Credit Rating	(Baa3/BBB-/BBB- or higher)
Minimum Amount Outstanding	USD 300mn
Minimum Issuer Size	n/a
Coupon	Fixed
Issuers	879
Members / Reference Entities	7,957
Weighting	Market value weighted
Issuer Cap	n/a
Maturity	At least 1 year until final maturity
Rebalance Frequency	Monthly
Rebalance Date	The last business day of the month

Data as of April 25, 2025

- ✓ Bloomberg total return indices provide market exposure similar to that of the corporate bond market, including debt issuance by US and non-US industrial, utility and financial issuers
- Currency minimums are based on market-specific issuance, issue sizes and a comparison of thresholds across markets
- Market value weighting reflects liquidity and market capacity for the asset class, aiding in replicability for investors
- Monthly rebalancing better suits the more frequent issuance and the more dynamic borrowing needs of fixed income issuers



Source: Bloomberg

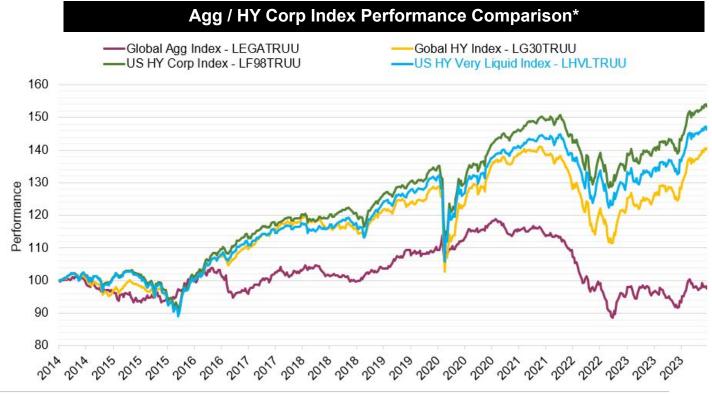
^{*} Index levels normalized as of 4/11/2014

Bloomberg U.S. Corporate High Yield Very Liquid Index (VLI)

	Bloomberg US Corp HY VLI TR Index
Index Ticker	LHVLTRUU
Inception Date	January 1, 1994
Currency	USD
Global Representation	Yes
Market Representation	Broad high yield bond market
Credit Rating	(Ba1/BB+/BB+ or below)
Minimum Amount Outstanding	USD 500mn
Minimum Issuer Size	n/a
Coupon	Fixed
Issuers	581
Members / Reference Entities	1,089
Weighting	Market value weighted
Issuer Cap	2%
Maturity	Between 1 and up to, but not including, 15 yrs
Rebalance Frequency	Monthly
Rebalance Date	The last business day of the month

Data as of April 25, 2025

- Setting the minimum issue size of 500mn for High Yield represents more than a 3x increase over the broad US HY Corp minimum issue size
- Sector MV weighting % difference between the US HY index and the very liquid (component) index is less than 1.5%
- Issuer cap helps maintain diversification and safeguards the index's risk/return profile by preventing idiosyncratic risk



Source: Bloomberg

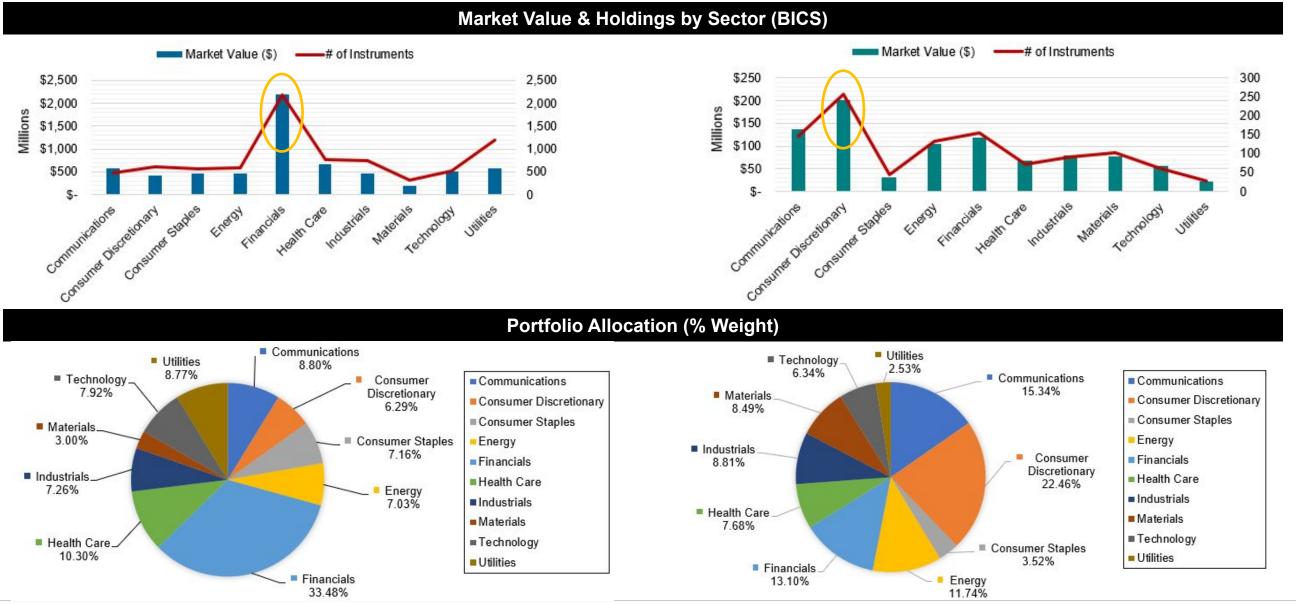
* Index levels normalized as of 4/11/2014



Index Holdings and Allocation

Bloomberg US Corp Bond IG Index

Bloomberg US Corp Bond HY Very Liquid Index





Index Profile & Key Statistics

Data as of April 25, 2025

			# of	Market Value	t Value Avg Avg	Avg	Yield to	OAD (144)	OAS (%)	YTD	1 Yr	5 Yr
			Constituents (\$US B)		Coupon Maturity Wo		Worst (%)	Worst (%) OAD (yr)		Total Return		n
Global A	Global Aggregate LEGATR		30,085	63,835	2.72	8.48	4.02	6.50	0.386	-4.56%	-2.47%	-7.67%
	US Universal	LC07TRUU Index	20,270	30,909	3.47	8.23	5.52	5.82	0.665	-2.97%	-0.39%	0.75%
	US Aggregate	LBUSTRUU Index	13,530	26,355	3.23	8.45	5.25	6.07	0.397	-3.44%	-1.51%	-0.94%
	US Corporate IG	LUACTRUU Index	7,957	6,504	4.15	10.65	5.70	6.75	0.889	-3.22%	0.90%	4.24%
Global H	ligh Yield	LG30TRUU Index	3,492	2,464	5.82	5.87	8.45	3.61	3.83	0.95%	11.32%	14.30%
	US Corporate HY	LF98TRUU Index	1,957	1,267	6.21	4.84	8.11	3.18	3.06	0.17%	9.11%	19.73%
	US Corporate HY VLI	LHVLTRUU Index	1,089	899	6.18	4.97	7.96	3.28	2.93	-0.09%	9.03%	16.67%





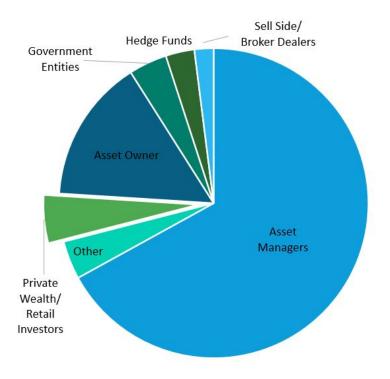
Bloomberg Fixed Income Indices – Benchmark of Choice

Global Coverage

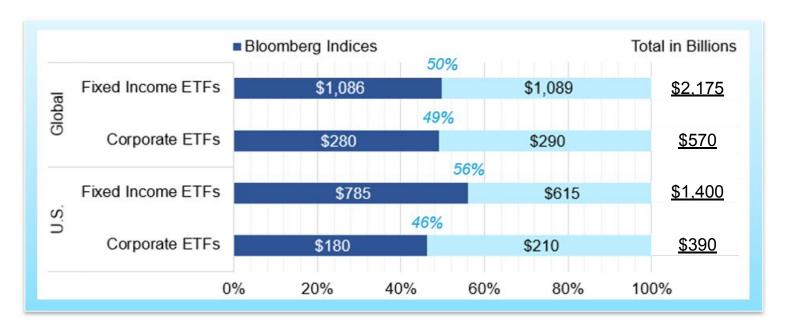
- Bloomberg offers a global suite of fixed income benchmarks and custom index capabilities.
- ✓ Over 50 years as a market pioneer and leader in fixed income benchmarks.
- ✔ Bloomberg publishes more than 55,000 standard and custom indices daily, covering more than 90,000 securities with over \$50 trillion in market value, representing 120 countries and 42 local currency debt markets.
- ✓ Over \$6 trillion in AUM benchmarked by public funds (and significant additional AUM by funds not required to report).
- Over 100 ETFs (totaling over \$750 billion in AUM) based in the US.

Who uses Bloomberg Fixed Income Indices?

Asset Managers Insurance Companies Pension Funds Commercial Banks/Trust Banks Central Banks Sovereign Wealth Funds Investment Consultants Hedge Funds ETF Providers Private Wealth/Retail investors Sell Side/Broker Dealers Custodians/Fund Administrators



#1 Provider of Benchmarks for Fixed Income ETFs*





Bloomberg Fixed Income Indices – Capabilities

Bloomberg is uniquely positioned as a benchmark provider who can self-source all fundamental pillars to support a sound index maintenance and production process.











DATA	PRICE – BVAL	ANALYTICS	DISTRIBUTION	RESEARCH
 Benchmarks widely accessible via market data redistributors Seamless integration with BVAL Access to 35 million instruments across all asset classes Rapid, real-time market data and key reference data 	 Transparent, defensible pricing at current and historical snapshots using sophisticated, asset class-specific relative value models Over 2.5M securities priced daily using 9 snapshots and 3,600 different curves Over 1.3K clients globally 	 Portfolio & Risk Analytics PORT<go></go> Portfolio Report Editor PREP<go></go> Custom Index Builder IQ<go></go> Fixed Income Fair Value Monitor FAIR<go></go> 	 Over 375,000 Bloomberg Terminals users globally BBA clients have automatic access to these indices on the terminal Integration with PORT and multiple 3rd party vendors 	 PORT and Index Research Bloomberg Intelligence BI<go></go>



Gain Direct Excess Return – Bloomberg Duration Hedged Index

A Duration Hedged Index (DHI) is an index whose return reflects the return on the underlying cash index, with its OAD exposure hedged with a basket of Treasury futures. These indices are used by investors seeking to remove the duration of their fixed income benchmarks while preserving the broad coverage and diversification of their existing fixed income investment set.

• The **Bloomberg US Corporate Duration Hedged Index** is a funded benchmark constructed to reflect the difference between the total return of the <u>Bloomberg US Corporate Index</u> and its associated Mirror Future Index (<u>MFI</u>).

Duration Hedged Index Construction Example

Step 1

Sort TR index bonds into OAD buckets



Step 2

Match each bucket's contribution OAD by a treasury futures contract and compute weights and returns



Step 3

Add T-bill returns to arrive at "funded" MFI and compute DHI

US Corporate TR Index	US	Corpora	te TR Ind	dex		US Tre	asury Futur	es	Funding	g (T-bills)
# of Bonds per OAD Bucket	OAD Bucket	MV%	OAD	Cont. to OAD	Contract	OAD	Weight	MTD Return (%)	Weight	MTD Return (%)
		Α	В	AxB		С	AxB/C			
1,785	0 - 3y	23.45	1.96	0.46	TUU3	1.95	23.6%	0.047	42.01%	0.156
1,431	3 - 5y	19.78	3.91	0.77	FVU3	4.07	18.99%	0.046	23.84%	0.156
1,771	5 - 7.5y	21.69	6.42	1.39	TYU3	5.96	23.35%	-0.012	12.77%	0.156
2,511	7.5 - 15y	27.88	11.99	3.34	USU3	11.78	28.38%	-0.578	8.62%	0.156
459	15y+	7.20	16.25	1.17	WNU3	16.62	7.04%	-1.124	10.99%	0.156
					Stub Position	1			1.78%	0.156
								MTD	MFI Total Return	0.012
								Cash Index N	MTD Total Return	0.301
								DHI M	ITD Total Return*	0.445

^{*} Duration Hedged Index (DHI) = Cash Index Return (0.301) – MFI Return (0.012) + T-bills Funding (0.156)



Capturing Excess Return Exposure

Two methods for those clients seeking to trade only the credit component

Gain Direct Excess Return via Duration-Hedged Futures (DHB)

- Utilizing Bloomberg's unique US Corporate 'Duration Hedged Index' (DHI) to create an excess (spread) return future, clients can capture the spread carry and change component of returns
- Duration hedged index created by utilizing a funded strip of Treasury futures weighted to closely match/offset the OAD profile of the total return index

Contract Specifications	Bloomberg U.S. Corporate Investment Grade Duration Hedged Index Futures
Commodity Code	DHB
Underlying Index	Bloomberg U.S. Corporate Duration Hedged Index*
Index Ticker	I30287US Index
Contract Multiplier	500 x Index Points (current index level ~200)
Approximate Notional	~\$100,000
Minimum Price Increment	1/20 of 1 Index points (0.05 = \$25.00)
Minimum Block Size	100 contracts = ~\$10mm in notional
Listing Schedule, Final Settlement	Aligned to IG and HY Futures

B		Offset	Interest	Rate	Duration	via	Treasury	Hedge
---	--	--------	----------	------	-----------------	-----	-----------------	-------

- A buy/sell combination of (a) future on the total return index and (b) Treasury Futures
- Specific component weights will be available from CME Group & Bloomberg to match/offset the key rate duration buckets of the total return index

	IG with simple TY hedge	\$1MM IG with UST hedge	\$10MM IG with UST hedge	
IG Futures	1 contract	10 contracts	100 contracts	
Notional	~\$100k	~\$1M	~\$10M	
Duration Hedge 1 TY		1 TU 2 FV 2 TY 2 US 1 WN	13 TU 17 FV 22 TY 23 US 5 WN	

^{*} For further details, please reference: https://assets.bbhub.io/professional/sites/27/Bloomberg-Index-Publications-US-Corp-DHI.pdf



Bloomberg Terminal Analytics – Fixed Income Indices

Bloomberg Indices at your fingertips, fully integrated on the Terminal.

LUACTRUU Index DES <GO>





Pull up a Bloomberg

Index and locate:

Index Description

Bloomberg Terminal Analytics – Fair Value Monitor (FAIR<GO>)

The Fair Value Monitor (**FAIR <GO>**) allows you to calculate the future fair value price, implied funding cost, and premium or discount of select **fixed income credit futures** or Bloomberg fixed income indices, so that you can compare them against other

credit products in real-time.

Process Steps

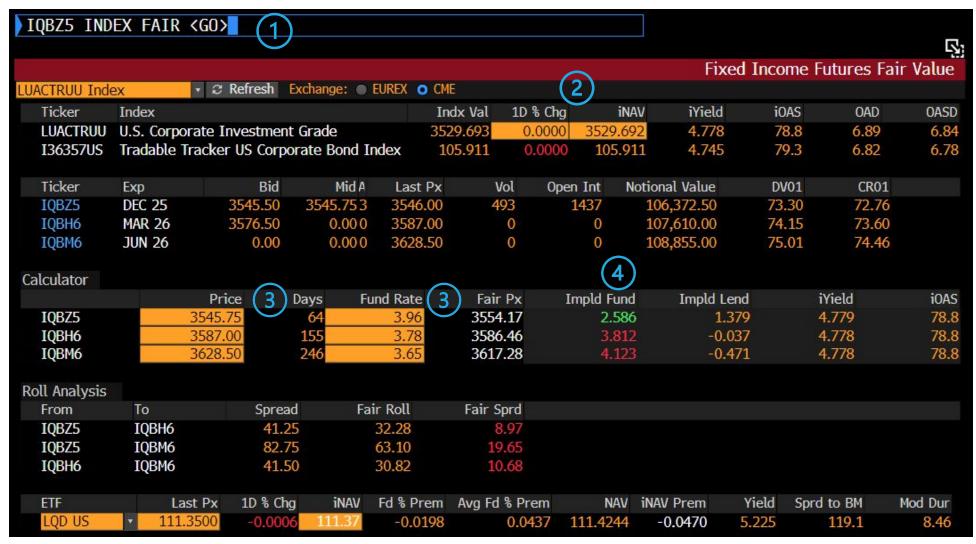
Step 1: From the command line, run FAIR with a credit future loaded (e.g., *IQBU4 Index, FAIR <GO>*).

Step 2: In the 1D % Chg column, enter a percentage change for the index to generate an intraday index value (iNAV).

Step 3: At the bottom left of the screen, in the Mid Px and Fund Rate columns, enter execution prices and funding rates for each contract.

☐ The table updates based on the values you entered.

Step 4: View the futures fair value spread to see if the contract is trading Rich/Cheap vs. the price as well as implied funding and lending costs.





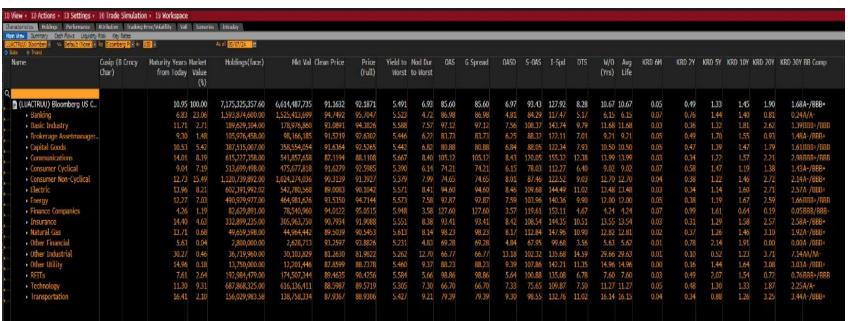
Bloomberg Terminal Analytics – Relative Value (PORT, FICM, IDRV)

- PORT<GO> provides a streamlined workflow that includes performance results, fundamental characteristics, historical performance, tracking error, scenario analysis, and portfolio optimization.
- FICM <GO> provides a high-level overview of the intraday, real-time performance of credit products (cash bonds, ETFs and CDX) and spreads allowing you to identify relative value opportunities.
- IDRV <GO> allows you to compare an instrument's current credit spread
 to historical levels, as well as those of comparable macro credit products,
 to determine the best vehicle for adding risk to or hedging your portfolio.

| Settings | Fixed Income Credit Monitor | Investment Grade | High Yield | Emerging Markets | Historical Range | I Month | Markit Indices | Spread | Chg | Spread | Low | Range | High | Avg | High | Avg | Chg | Spread | Low | Range | High | Avg | Chg | Spread | Low | Range | High | Avg | Chg | Spread | Low | Range | High | Avg | Chg | Spread | Low | Range | High | Avg | Chg | Spread | Spr

FICM<GO>





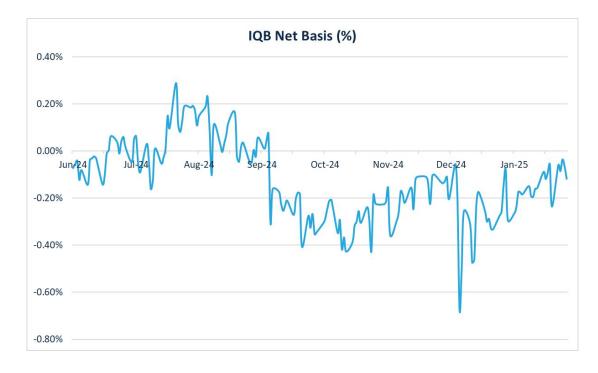
IDRV<GO>



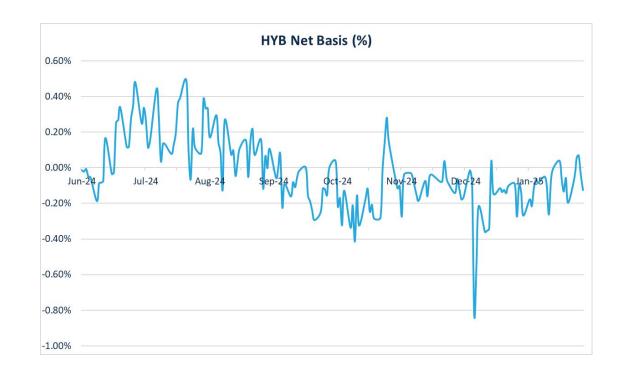


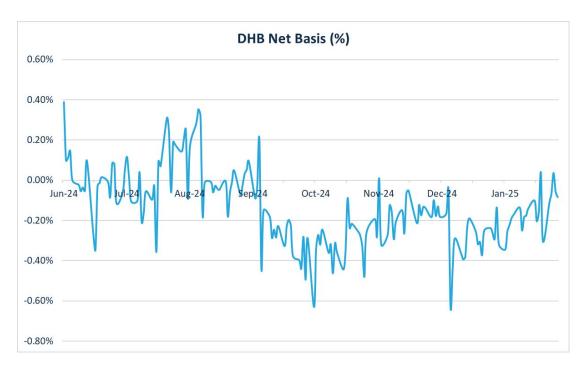
Credit Futures Net Basis

Measured as the difference between the futures price and the estimated fair value futures price, the net basis allows traders to evaluate futures pricing relative to the underlying index.



- Net Basis = 0 → futures are fairly priced relative to the spot price of the underlying index and prevailing financing rates
- Net Basis <0 → future is trading at a discount to the fair value, and is considered "cheap"
- Net Basis >0 → future is trading at a premium to the fair value, and is considered "rich"







Blocks and Derived Blocks

- ✓ Blocks and derived blocks can be executed for trades of 100 contracts or more (~\$10MM notional)
 - Block Market Maker Directory
- Derived blocks provide greater liquidity and execution flexibility by allowing liquidity to be sourced from related ETFs
 - See Section 14 of <u>Rule 526 MRAN</u> for more information
 - FAQ: Derived Blocks
 - How to enter a derived block in CME Direct

FIRM	CONTACT(S)	PHONE	EMAIL
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	Antony Harden (London)	+44 20 7774 2248	antony.harden@gs.com
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JP Morgan	Joe Paccione (New York)	+1 212 622 2861	joseph.paccione@jpmorgan.com

Derived Block Example

Participants agree on a futures reference of 3470 against LQD reference of 100. Participants also agree on a hedge ratio of 0.81 = 6.8 / 8.4, reflecting the duration difference between IQB futures (6.8 years) and LQD (8.4 years).

Participants agree on a hedging method and window for the reference hedge: a TWAP from 11:00 a.m. - 12:00 p.m. ET.

A liquidity provider conducts their hedging transactions in the related market and determines the TWAP to be 101.

Because the TWAP is 1% higher than the reference price, the futures price will be adjusted by that amount, multiplied by the agreed hedge ratio.

Result:

FuturesRef x [1+ [(TWAP/Ref -1) x AdjustmentFactor]

- $= 3470 \times [1 + (101/100 1) \times 0.81]$
- $= 3470 \times 1.0081$
- = 3,498.11 (rounded to the nearest 0.01 Index Points)



Margin Offsets

Credit Futures Margin Offsets IG DURATION-IG CREDIT HY CREDIT HEDGED HEDGED 2-YEAR NOTE (ZT) 50% 55% 3-YEAR NOTE (Z3N) 60% 5-YEAR NOTE (ZF) 65% 60% 10-YEAR NOTE (ZN) 60% **ULTRA 10-YEAR (TN)** 70% TREASURY BOND (ZB) 70% 60% **ULTRA TREASURY BOND (UB)** 65% 60% E-MINI S&P 500 (ES) 31% 45% 35% 23% E-MINI DOW (YM) 35% 53% 27% 28% 53% E-MINI RUSSELL 2000 (RTY) 37% 38% 41% S&P AIR TRF (ASR) 28% 47% 24% 21% E-MINI NASDAQ 100 (NQ) 32% 33% 31% 15% 70% IG CREDIT (IQB) 50% 40% HY CREDIT (HYB) 70% 70% 70% 70% IG DURATION-HEDGED (DHB) 50% **CME** Group * Last Updated 9/26/25

Example

The initial margin (IM) requirement for a portfolio that is long 3 contracts of HYB and short 2 contracts of ZN is:

Total IM =
$$(3 \times \$1,320 + 1 \times \$2,805) \times (1-60\%) + \$2,805$$

= $\$5,511$

Note: Margin offsets can only be applied in specific ratios. Excess positions are not offset.

Leg	Leg Qty	Direction	IM (\$) Per Contract	Total IM (\$)
HYB	3	Long	\$1,320	\$3,960
ZN	1	Short	\$2,805	\$2,805
Total IM for Margin Offsets Eligible Positions				\$2,706
ZN	1	Short	\$2,805	\$2,805
Total IM with Excess Position				\$5,511

Margin offsets and example as of June 2025. Offsets vs. Equity Index futures calculated via CME Core. For the latest margin levels and offsets, see <u>Product Margins</u>.



Disclaimers

Any implementation of the proposal and points discussed in this document are subject to regulatory review and to any necessary internal and external approvals.

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