
- ◀ ◻ ▶ ◀ ◻ ▶ ◀ ≡ ▶ ◀ ≡ ▶ ≡ ↺ 🔍 ↻

XIDA.xlsm: Company In-depth Analysis Template

- Open XIDA.xlsm and place the cursor in some cells to find what functions are used to get the data
 - Unhide "DataH" worksheet to find more cells with functions.
 - You can search for the names of Bloomberg functions in the DataH worksheet to see how each function is used in the worksheet.

Bloomberg Query Language: BQL

- Type BQLX `< GO >` to find the information on how to use Bloomberg Query Language (BQL) to retrieve and perform analysis in Excel.
- BQL allows you to perform custom calculations without downloading the data.
- Specify the data and the calculation including arithmetic and statistical operations, filtering, grouping, scoring, and dates-based analysis.
- There are two different formulas:
 - BQL(): Uses the standard Bloomberg formula structure.
 - BQL().Query(): Use a raw string of BQL code, containing the `get()` and `for()` clauses [e.g., `BQL.Query("get(px_last) for (['IBM US Equity'])")`]].
- Check out BQLX for more details.

2020SP500Constituents_2025_Short.xlsx

- The first worksheet (Constituent) was created by the following procedures:
 - In a Bloomberg window, type SPX Index MEMB
 - Choose a date in As of 12/31/2020
 - Under "Export", choose "Excel" and save it to a file.
- Copy the Ticker column (from the second row) and then use the "Paste Special - Transpose" option in Excel to paste it in columns of the first row in other worksheets.
- Finally, use Bloomberg functions to retrieve the data (returns, market capitalization, and market-to-book equity ratio) for each ticker in each worksheet.

Inmoo Lee

D2	=BDH(D\$1,\$A\$1,\$C2,\$C2)				
	A	B	C	D	E
1	MARKET_CAPITALIZATION_TO_BV	Bdate	Edate	WEC UN E	NWS UW
2		6-30-2020	2020-06-30	2.6626	0.9229
3		6-30-2021	2021-06-30	2.5905	1.8197
4		6-30-2022	2022-06-30	2.8117	1.1174

Bloomberg API

- You can access to the Bloomberg data directly from your Python codes by using the Bloomberg API
- You can use it only when you login to a Bloomberg terminal.

API

- Useful links
 - [Getting started with Bloomberg's Python Desktop API](#)
 - [Historical Stock Price Data in Python](#)
 - [Algorithmic trading based on Technical Analysis in Python](#)
 - [How to store financial market data for backtesting](#)

Examples

- FDNote6W2025.ipynb includes codes to find the list of member firms of the S&P 500 index, download the returns, market caps, and market-to-book (MB) ratios, and calculate the MB portfolio returns.
- You can use fields information from the FLDS page after choosing an instrument of your choice (e.g., MSFT US Equity) in Bloomberg.

Calling Equity Screening Results from Python

- In a EQS (Equity Screen) window of Bloomberg, you can save a screening result into your account.
- For example, select "Indices" and enter "SPX" to find S&P500 index.
- Choose "Actions" and "Save as".
- Type in any name you want to call it (e.g., "your name") and "Update"
- Then, it will appear in your screens and you can call it from Python by using **blp.beqs('your name')**.
- Unlike LSEG Workspace, you have to specify screening criteria within Bloomberg and call it in Python.

Portfolio formation and return calculation using Python

- FDNote6W2025.ipynb shows you how to use the results of an EQS (Equity Screen) and to create portfolios using the results.
- In addition, it also shows how to calculate portfolio returns and test the significance of differences between two portfolio returns.

Equities

- Main Equities Menu: 〈 EQUITY 〉 〈 GO 〉
- Current Markets/Monitors
 - Most Active Up/Down: MOST 〈 GO 〉
- World Equity Indices: WEI 〈 GO 〉
- Finding securities
 - Ticker Symbol Look Up: TK (****) 〈 GO 〉
 - SECF 〈 GO 〉: Security finder

- Weighted Average Cost of Capital and EVA
- Click "Equity" on the screen to find out how the cost of equity was calculated. To find more data sources and assumptions used, you can click [HELP](#).



Useful Corporate Finance Related Functions: CAST

- CAST
 - Capital Structure Analysis
 - You can find the detailed information on bonds issued by the company, including prospectus and other information.
- SPLC: Supply Chain Management
- FA
 - Financial Analysis
 - ESG is under FA (8)
- EE: Earnings and estimates
- EVT: Company events

How to find available fields?

- Enter FLDS < GO >
- Search for the one you want: e.g., WACC
 - Click the one you would like to check

CACT: Corporate Action Calendar

- CACT < GO >
- Can find a list of firms that have taken a certain type of corporate actions such as equity offerings, buyback, M&A and so forth

News search

- NI < GO >: List of news categories
- NI BBK < GO >: Scrolling News: Buybacks
- NI BBKNEW < GO >: Scrolling News: New Buyback Programs

Total returns

- TRA 〈 GO 〉
 - Total return analysis
- COMP 〈 GO 〉
 - Comparative returns

Getting Useful Documents

- BPS 〈 GO 〉

Single Equity – Insider Trading

- Insider Filings History (Example using Intel (INTC))
 - Get company news about insider trading
 - INTC < EQUITY > CN WSA < GO >: WSA stands for The Washington Service which is a vender providing insider trading data (<https://www.washingtonservice.com/>)
 - Insider Transactions
 - INTC < EQUITY > GPTR < GO >: GPTR: Insider/Major shareholder transactions
- Other insider trading related functions
 - INSD < GO > (Insider trading monitor)
 - OWN < GO > (Ownership summary)
 - NI IBS < GO > (Scrolling news: Insider buying and selling)

Single Equity – Options Monitor

- INTC < EQUITY > OMON < GO >
- Description
 - Click on the specific option you want and type DES < GO >
- Historical options
 - Click on the specific option you want and type: HP < GO >

Equity Comparative Analysis

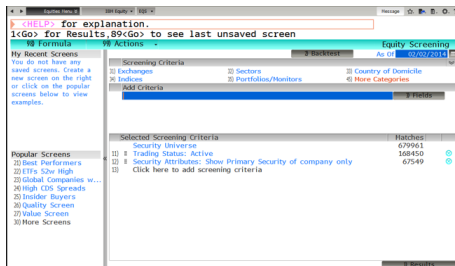
- Compare an Equity to an Index
 - Intel compared to 2 major indexes
 - INTC < EQUITY > COMP < GO >

Equities: IPO and M&A

- Equity offerings
 - IPO < GO >
- Bloomberg M&A Analysis
 - MA < GO >
 - Mergers and Acquisitions Search
 - M&A League Table Search
 - Mergers and Acquisitions Statistics
 - Mergers and Acquisitions News

Earnings analysis and equity screening

- Earnings and Estimates
 - EE < GO >
- Equity screening
 - EQS < GO >



How to form portfolios in Bloomberg?

- EQS: Equity Screen
 - Type 1 `< GO >` to go to the output screen
 - Under "Export", choose "Portfolio" to save the result as a portfolio
 - Choose Name, weight method, etc.
- PORT: Portfolio and risk analysis
- PRTU: Portfolio Management

Bonds

- Main Bond Menu < CORP > < GO >
- Specific Issuer: IBM < CORP > < GO >
- Specific Bond
 - {Ticker} {Coupon} {Maturity} < CORP > < GO >
 - IBM 7.00 10/30/25 < CORP > < GO >

Bonds

- IBM 〈 CORP 〉 〈 GO 〉 and choose a bond
 - DES 〈 GO 〉 Description of bond
 - CRPR 〈 GO 〉 Current & historical debt ratings
 - HP 〈 GO 〉 Historical price and yield
 - YAS 〈 GO 〉 Yield spread analysis
 - TRA 〈 GO 〉 Total return analysis
- RATD 〈 GO 〉 Rating scales and definitions for Moody's, S&P, etc.

Custom Bond Search

- To screen for bonds
 - { CORP } SRCH { GO } and choose "Example Searches"

Loaded Search Korea foreign currency corporate bonds

Fixed Income Search		
Actions + Settings		
Build/Edit Search	My Searches	Example Searches
Category	Name	Shortcut
41 Emerging Market - APAC	120 China Corporate Bonds	@CHINACORP
42 Emerging Market - EMEA	122 China Munis and LGFV Bonds	@CHINAMUNI
43 Emerging Market - LATAM	123 China NCD	@CHINANCD
44 Issuance	124 China Onshore Bonds	@CHINAONSHORE
45 League Tables	125 Dim Sum Bonds (Ex CD's)	@DIMSUM
46 Loans	126 Emerging Asia Convertible bonds in G3	@EMCONVERT
47 Mortgages (Agency Pools)	127 Korea foreign currency corporate bonds	@KOREACORP
48 Mortgages (Structured Finance)	128 Korea foreign currency government bonds	@KOREAGOV
49 Screening	129 Kungfu Bonds	@KUNGFUBOND
50 Structured Notes	130 Offshore Chengtou Bonds	@OFFCHENGTOU
51 US Municipals	131 Offshore RMB Bonds	@OFFSHORERMB
	132 Onshore Chengtou Bonds	@CHENGTOU
	133 Philippine Government Bonds	@PHILGOVB
	134 Philippine Treasury Bills	@PHILTBILL
	135 Taiwan corporate bonds	@TAIWANCORP
	136 Taiwan International Bonds	@TWINTBONDS

04/11/19 61.3 9777 0600 Brazil 0511 2795 2000 Europe 44.20 7230 7500 Germany 49.69 8204 1210 Korea 052 2277 6090
Japan 61.3 3201 8900 Singapore 65 6212 1000 U.S. 1 212 518 2000 SN 130152 750 CHN 100 0885 2517 03 14U-2019 10:47:47

Macro Economic Analyses

- WGDWORLD Index **< GO >**: World GDP
- ECST: World Economic Statistics
- ECO: Economic Calendars
- WECO: World Economic Calendars

Inflation and Fed Policies

- Inflation Monitor (IFMO)
- Inflation measures
 - GDP deflator (GDP DEFL Index)
 - CPI (CPI INDX Index)
 - Core Personal consumption expenditures (PCE CORE Index)
 - Breakeven inflation rate (TIPS: ILBE (USGGBE30 Index))
- Output gap
 - Actual GDP (GDP CUR\$ Index) - Potential GDP (CBOPGDPN Index) = Nominal Output Gap (CBOPGAPN Index)
- Short-term interest rate (Fed Funds Target Rate: FDTR Index)
 - World interest rate probabilities (WIRP)
- FOMC Activities (FOMC)
 - Fed Open Market Committee Statements of meetings (FOMS)
 - STNI FOMC SIDEBYSIDE

Economic Indicators

- NAPMPMI: Purchasing managers index by ISM (Business Confidence)
 - PMI (Markit's PMI covering many countries)
- NFP TCH: Nonfarm payroll total monthly change (Unemployment)
- NHSPSTOT: US New Privately Owned Housing Units Starts
- In the US, all the above are updated monthly and therefore, used as good economic indicators compared to GDPs that are updated quarterly with time lags. (ECOS: Provides full details behind economist estimates for calendar release (e.g., NFP TCH Index ECOS))

Economic forecasts

- ECFC: Long-term economic forecasts
- ECSU: Economics Surprise Monitor

Others

- NI BRIEF [GO](#): Bloomberg Brief Newsletters
- FXFC: FX Forecasts
- OPEC: OPEC Production and Prices
- MAP: Custom map including maps for commodities, power plants and natural gas pipelines

Terminal Functions

Terminal Functions

Click a box to see a larger version of the Terminal screen.

WCAP displays stock market capitalizations of entire country stock markets around the world	SRCH an encyclopedia of bonds	BUDG provides data and analytics on the U.S. Federal Budget	YAS Yields and spreads on government bonds	DEBT ownership statistics of sovereign debt for select countries including the U.S.	STNI FOMC side-by-side comparisons of official statements from the FOMC
CAST a visualization of issuer capital structure	DDIS a visualization of issuer debt repayment schedules	GY a historic yield chart for a selected bond	WB monitors major sovereign bond yields and spreads	WCDM a country debt monitor analyzing the financial condition of countries for debt investors	WIRP shows the probability ascribed by the market to future interest rate decisions
RATD credit rating scales and definitions from various debt rating agencies	CSDR displays real time credit ratings for sovereign borrowers	CRPR displays current and historical credit rankings by issuer from various rating agencies	SOVR a monitor of global sovereign Credit Default Swap spreads	GC a visualization tool for real-time and historic yield curves	FXFC displays foreign exchange rate forecasts
IFMO displays inflation tracking and data such as rates, targets, and forecasts	GEW shows key economic statistics by country	ECFC displays economic forecasts	ILBE shows breakeven inflation rates derived from inflation protected securities	FOMC policy decisions, news, and analysis of the Federal Open Market Committee	BYFC displays government bond yield estimates for various points in the future

Others

- Volatilities
 - VIX 〈 INDEX 〉 GP
 - Implied volatilities
 - SPX 〈 INDEX 〉 HVG
 - Historical realized volatilities
 - HIVG: Historical and implied volatilities
- Other useful commands
 - GRAB: Send the screen image to an email address
 - LAST: Your command history