

AmiBroker 1.6 - Guide

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Contents

1	AmiBroker 1.6 - Guide	1
1.1	AmiBroker 1.6 On-Line Documentation	1
1.2	DISCLAIMER & LEGAL STUFF	1
1.3	Distribution	2
1.4	Introduction	2
1.5	Main features of AmiBroker	3
1.6	Program requirements	4
1.7	Installation and running	4
1.8	AmiBroker main Windows	5
1.9	ToolBar window	6
1.10	Drawing Tool	6
1.11	Chart zooming	7
1.12	Select window	7
1.13	Portfolio management window	7
1.14	commission table	7
1.15	Quotation manual entry window	8
1.16	Financial data window	8
1.17	Main chart window	9
1.18	Turnover volume/value chart	9
1.19	Information about corporation	9
1.20	Preferences window	10
1.21	Technical indicators	11
1.22	ROC - Rate Of Change	11
1.23	RSI - Wilder's Relative Strength Index	11
1.24	Relative Strength	12
1.25	TRIX	12
1.26	MACD	13
1.27	OBV	13
1.28	Stochastic slow	14
1.29	Ultimate	14

1.30 Risk-Yield Map	14
1.31 Main Menu	15
1.32 Program menu	15
1.33 Stock menu	15
1.34 Quotations Menu	15
1.35 Charts Menu	16
1.36 Portfolio menu	16
1.37 Import from teletext	16
1.38 Import ASCII	16
1.39 Import from KING service	18
1.40 Adding a new stock	18
1.41 Removing a stock	18
1.42 Split a stock	18
1.43 ARexx On-line reference	18
1.44 How to register?	22
1.45 Registration form	22
1.46 Contact addresses	23
1.47 Future releases	23
1.48 Thanks	23

Chapter 1

AmiBroker 1.6 - Guide

1.1 AmiBroker 1.6 On-Line Documentation

AmiBroker 1.6

Copyright (C)1995 by Tomasz Janeczko
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This file describes stock analysis program AmiBroker 1.6.

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Introduction what is this program for ?
Main features list of main features
Requirements what do you need to run AmiBroker ?
Installation and running how to get started

Windows description of windows
Menus description of menu items
Gadgets description of gadgets in ToolBar

Technical indicators short guide to technical analysis

ARexx ARexx commands on-line reference

Registration How to register ?
Registration form ready to print :-)
Future releases development plans
Getting contact with author . . my contact address
Thanks greetings list

1.2 DISCLAIMER & LEGAL STUFF

THIS PRODUCT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE. THE ENTIRE RISK TO USE, RESULTS AND PERFORMANCE OF THE PRODUCT IS ASSUMED BY YOU.

AmiBroker executable and related files are

**** SHAREWARE ****

that means you may use, copy and transfer unregistered version of product in complete, unchanged form.

YOU ARE NOT ALLOWED TO COPY, RENT OR LEASE KEYFILE 'broker.key' WHICH IS DISTRIBUTED WITH REGISTERED VERSION.

YOU MAY NOT DECOMPILE, DISASSEMBLE OR ATTEMPT TO UNLOCK OR BYPASS ANY USER ACCESS LIMITATION INCLUDED WITHIN THIS PRODUCT.

AmiBroker uses ReqTools library which is
Copyright (C) Nico François.

1.3 Distribution

The only 'place' of distribution of this program is AmiNet.
You can find the most recent version of AmiBroker in your nearest AmiNet mirror in 'misc/biz' directory.

You are allowed to copy/distribute this product in complete, unchanged form as long as the copying fee does not exceed the cost of media.

YOU ARE NOT ALLOWED TO COPY, RENT OR LEASE KEYFILE 'broker.key' WHICH IS DISTRIBUTED WITH REGISTERED VERSION.

If you like this program you should register by sending me proper registration form and registration fee (15 USD).

1.4 Introduction

AmiBroker is the program for analysing stock trends and portfolio management. Since it was written in Poland, it was designed to meet Warsaw Stock Exchange (WSE) trading requirements.

I realize that WSE rules could be very different from other countries' exchange circumstances. So, when you find this program useful, and want to register, please describe your requirements to help me meet your needs.

Version 1.6 introduces powerful ARExx command set which allows writing custom scripts for quotation import. There is also ASCII import feature suitable for most users.

See also: Main features

1.5 Main features of AmiBroker

These are the main features of AmiBroker

1\textdegree{} Full technical analysis of stock trends - charts including:

- price
- candlesticks (for open/close/high/low display)
- volume
- turnover value
- short-time & long-time moving averages
- Bollinger bands
- Rate Of Change indicator (ROC)
- Wilder's Relative Strength indicator (RSI)
- Moving Average Convergence-Divergence oscillator (MACD)
- On Balance Volume oscillator (OBV)
- Stochastic Slow oscillator
- Ultimate oscillator
- risk/yield map
- Relative Strength (RS)
- Triple exponential indicator (TRIX)
- * Drawing tool for trendlines etc.
- * Zoom feature
- * All charts freely scalable ;-))

2\textdegree{} Stock information handling

- adding new & removing old stock issues
- split handling with automated date/ratio detection
- corporation finances database
- fundamental indicators such as price-to-earnings ratio (P/E)

3\textdegree{} Convenient quotation data entry

- (NEW) configurable ASCII import feature
- (NEW) ARexx commands for adding new quotation data
- (NEW) database with open/close/high/low prices
- import from teletext (Warsaw Stock Exchange specific)
- import from KING-service (WSE specific)
- manual entry
- removing selected quotation

4\textdegree{} Preferences editor:

- fully customizable parameters of indicators
- screen resolution and palette prefs

5\textdegree{} Portfolio management

- buy/sell transactions handling
 - dividend (with setable dividend tax)
 - pay-in/pay-out evidence
 - brokerage commission editor
 - stock adding/removing
 - portfolio contents printing & export
-

6\textdegree{} SPEED !!!

- chart drawing is extremely fast (LESS THAN 1 SEC on stock A1200)
- special version for 68020+68881 8-))
(50-300% speedup!!!)

7\textdegree{} ERGONOMY !!!

- all or any selected number of charts can be viewed at the same time
- instant access to any quotation data by selecting interesting point on the chart ←
- window auto-arrangement function
- asynchronous design, all main windows are independent and can be opened at the same time

8\textdegree{} ARexx

(NEW) Powerful set of ARexx commands providing total control over quotation database. (introduced in version 1.6)

9\textdegree{} OS support

- works on any kind of monitor - user selectable screen resolution/monitor (← now works even better)
- fast-access, 8-color ToolBar providing main functions of the program
- (NEW) AmiBroker now opens public screen allowing visitor windows to be ← opened on.

1.6 Program requirements

Minimum system:

- any Amiga, 1MB RAM minimum
- OS 2.04 or better

Preferred system:

- A1200 or better, 2MB RAM or more
- Hard disk

1.7 Installation and running

You can install AmiBroker with 'Install-AmiBroker' script. You will need Installer program from Commodore (not included in this distribution). If you have one, just double click on 'Install-AmiBroker' icon. If you don't have Commodore's Installer program you will have to install AmiBroker files manually.

These are the things you have to keep in mind doing manual installation:

1\textdegree{} Following files must be placed in AmiBroker main directory:

- AmiBroker (program itself CPU=68000+)
- AmiBroker.FPU (program itself CPU=68020+ FPU=68881+)
- broker.prefs (preferences file - optional)
- broker.portfolio (portfolio data file - optional)

2\textdegree{} In the 'data' subdirectory files containing quotation data must be placed ↵

- data/AGROS
- data/AMERBANK
- data/BIG
- data/BRE
- ... itd.

3\textdegree{} You will need following libraries installed in LIBS: directory:

- diskfont.library
- retools.library (version 38+)

These libraries are required but not included in this distribution.

4\textdegree{} And following fonts in FONTS: directory:

- XenPL.font
- XenPL/8
- XHelveticaPL.font
- XHelveticaPL/11

Once you have installed the program you can run it by double-clicking on its icon (AmiBroker or AmiBroker.FPU if you've got math co-processor)

1.8 AmiBroker main Windows

AmiBroker can open following windows:

Toolbar	. . . . .	ToolBar with fast-access gadgets
Select	. . . . .	global stock name selector
Information	. . . . .	information about corporation
Preferences	. . . . .	chart preferences
Portfolio	. . . . .	portfolio management window
Financial data	. . . . .	financial data entry window
Main chart	. . . . .	with price, volume, etc.
Turnover	. . . . .	turnover/volume bar chart
ROC	. . . . .	Rate Of Change chart
RSI	. . . . .	Wilder's Relative Strength Index chart
MACD	. . . . .	MACD chart
OBV	. . . . .	On Balance Volume Chart
Stochastic Slow	. . . . .	Lane's Stochastic Slow chart
Ultimate	. . . . .	Ultimate indicator chart
Risk/Yield	. . . . .	risk/yield map
RS	. . . . .	Relative Strength compared to market index

TRIX TRIX chart

Chart windows are freely scalable and can be automatically arranged (see preferences settings).

All this windows are asynchronous i.e. you can open as many windows as you like, and work with all of them at the same time.

If you select a stock in Select window all opened charts will be redrawn.

1.9 ToolBar window

In Toolbar window there are several icons providing fast access to main functions of th program:

- open Main chart window
- open Turnover bar-chart window
- open MACD chart
- open RSI chart
- open ROC chart
- open Stochastic Slow chart
- open OBV chart
- open Ultimate chart
- open RS chart
- open TRIX chart
- open risk/yield map
- select normal pointer
- select drawing tool pointer
- zoom chart
- import from KING service
- import from teletext
- manual entry
- open information about corp. window
- add a new stock
- remove stock
- split
- open financial data window
- arrange chart windows
- screen mode prefs
- palette prefs
- chart preferences
- open portfolio management window
- open commission table
- quit AmiBroker

1.10 Drawing Tool

With the drawing tool you can draw trendlines by hand.

To draw a line simply press left mouse button, move pointer to desired point and then release button.

To cancel drawing simply press ESC key or move pointer outside

the window.

1.11 Chart zooming

You can change number of displayed quotations by this gadget.
First click on the chart to select the beginning session, then press this gadget.
To restore preferences' setting just click this gadget again.

1.12 Select window

In this window we have got list of available stocks & indexes.
Selecting one of them will refresh all opened charts and update information windows.

This selection is global for the program i.e. all stock functions will reference stock selected in this window.

1.13 Portfolio management window

There are following items in the portfolio management window:

- portfolio stock list
- text fields containing date, quantity, buy price, current price, value, yield
- total stock value
- cash remaining
- total portfolio value

Following actions could be taken:

- Buy stocks - you will be asked for confirming stock selection and price and then you will be asked for a number of stocks you want to buy.
- Sell stocks - as before except of the fact that you have to choose the stock from the `_portfolio_` stock list.
- Dividend - after selecting that gadget you will be asked for dividend value per one share. Program will calculate total dividend value minus income tax.
- Pay in
- Pay out

You can enter commission taken by all buy/sell transactions in commission window.

1.14 commission table

In this window you can enter commission taken by buy/sell transactions. commission are in % of value of trade.

1.15 Quotation manual entry window

Manual entry of quotations isn't the most convenient method. Polish users can import quotations from teletext and KING service. Foreigners may use ASCII import feature .

If you must enter quotations by hand here's the instruction:

After selecting 'manual entry' option you will be asked about the session date. If one exists in the database you will be able to modify existing quotations, if not - program will add new session to its database.

After selecting session's date, the window with following fields will show up:

- Pick - gadget which picks current stock name from stock list
- Stock name
- Price entry gadget (closing price)
- Turnover value entry gadget

For continuous quotations you get also

- Opening price gadget
- Day's highest price
- Day's lowest price

By default program will start from the first stock in the list, however you can change edited stock name using 'Pick' gadget.

You can enter stock price using price entry gadget, and turnover using next gadget. Please remember that turnover MUST be entered in thousands of your currency. (For example if turnover value is 123200 please enter 123.2 or simply 123)

When continuous quotations are enabled you will be asked for volume (not for turnover)

You should then enter the number of shares.

You should also enter open, high and low prices into appropriate gadgets.

As you accept your entries with >TAB< key program will proceed to the next stock in the list. (Tab-Cycle activation)

You can accept all your entries by hitting OK gadget or cancel all by selecting >Cancel<

1.16 Financial data window

This window provides fundamental financial data of corporation as:

- sales income
 - earnings before taxes (EBT)
-

- earnings after taxes (EAT)

These are given in a quarter base.

Program will compute P/E (Price to Earnings ratio) and EPS (Earnings Per Share) indicators from given data.

1.17 Main chart window

Here we have price chart along with (as set in preferences window):

- turnover/volume bar chart
- short time moving average chart
- long time moving average chart
- Bollinger bands chart

On the X axis months are given and on the Y - prices.
Price scale could be linear or logarithmic.

There is one important feature of this window - if you click on the chart you will get access to any displayed quotation - following items will be displayed on the title bar:

- date
- price
- additional infos (WSE related) (nk, ns, rk, rs, ok, os)
- percentage price change
- turnover value/volume

When continuous quotations are enabled you will get following items on title bar:

- date
- close
- percentage closing price change
- high
- low
- volume

By default last quotation's data are displayed.

You can switch this cursor-line by click outside the chart but within the window.

1.18 Turnover volume/value chart

This window contains turnover volume or value chart.

Which of these depends on your settings in preferences window.

CAUTION: For continuous quotations turnover value is approximate.

1.19 Information about corporation

This window provides several infos about corporation:

Short name - th short form of firm name, used in 'Select' window and with quotation import functions. If you use them, please check if Short name given in this field is the same as used in ↔ Teletext service. (this is WSE specific feature)

Full name - official version of firm name

Code - stock code (WSE specific)

Address - corporation address

Issue - total number of shares

Nominal value

Book value

Information about that if given firm is on primary or secondary market.

Continous quotation mode (this enables candlestick charts and manual entry open/high/low/volume gadgets)

1.20 Preferences window

This window provides following chart settings:

For main chart we've got

- fat/thin price line switch
- mark individual quotations on/off switch
- logarithmic scale on/off switch
- add turnover/volume chart
- add short-time moving average chart
- add long-time moving average chart
- add Bollinger bands

Ranges of moving averages and width of Bollinger bands are also definable.

For other charts:

ROC - range
 RSI - range
 MACD - fast and slow average range, signal average range
 Stochastic Slow - range
 Ultimate - fast, medium and slow average range
 TRIX - averaging range

Turnover - value/volume switch

Additional options:

Auto-arrange charts - if this option is on chart windows are scaled and arranged to fit the screen after every opening/closing chart window.

Number of quotations - sets maximum displayable quotation qty.

Colors:

These gadgets provides user definable color selection for charts, grid & background.

1.21 Technical indicators

In AmiBroker there are following technical indicators:

ROC	. . . . .	Rate Of Change
RSI	. . . . .	Wilder's Relative Strength Index
MACD	. . . . .	Moving Average Divergence/Convergence
OBV	. . . . .	On Balance Volume
Stochastic Slow	. .	Lane's Stochastic Slow
Ultimate	. . . . .	Ultimate Indicator
RS	. . . . .	Relative Strength compared with index
TRIX	. . . . .	TRIPLE xponential oscillator

and moving averages, Bollinger bands and risk-yield map .

1.22 ROC - Rate Of Change

ROC - Price Rate Of Change

This indicator displays the rate-of-change of a security's price. Change is displayed as a percentage rather than as a ratio. Both look at today's price in comparison to the price "n" days ago. Prices tend to increase and retract in a cyclical wave like motion. The faster prices fall, the faster the rate-of-change will fall and the faster prices rise, the faster the ROC will rise. This indicator is usually displayed as an overbought/oversold format.

Calculate the price rate-of-change by dividing the price change over the last n-periods by the closing price n-periods ago. This gives you percentage that the price has changed in the last n-periods.

Note: You can change value of "n" in preferences window.
Default value of ROC's n = 10.

1.23 RSI - Wilder's Relative Strength Index

RSI - Relative Strength Index

The Wilder RSI is an excellent overbought/oversold indicator that can

be used to predict trend reversal points. Do not confuse this index with relative strength in its everyday definition as used in comparing the movement of one security, index or group against the movement of another security, index or group. Developed by J. Welles Wilder, Jr. and first described in his book "New Concepts in Technical Trading Systems", this is a momentum oscillator that measures the velocity of directional price movement. It compares a stock's highest highs and lowest lows over a period of time. RSI is based upon the difference between the average of the closing price on up days vs. the average closing price on the down days.

$$RSI=100-[100/(1+U/D)]$$

U=average of upward price closes (EMA of gains)

D=average of downward price closes (EMA of losses)

The ratio between up and down closing averages is in fact the makeup of the index. The author (Wilder) uses an n value of 14 days but other values may be used that better fit particular securities.

When the graph exceeds 70, stock can be near a top. When the RSI gets close to 30, stock may be forming a major bottom. - Support and resistance may many times show up on the index before they appear on the bar charts. Divergence between the RSI index and price movement is a strong indicator of a possible correction as when the price continues to rise and the RSI is declining. If the price of the stock continues to fall, but the RSI rises, look for a possible correction in the price direction. Failure swings above 70 or below 30 can also be very strong indicators of a price reversal.

Note: You can change value of RSI averaging range in preferences window.
Default value of RSI's n = 9.

1.24 Relative Strength

RS - Relative Strength

Compares the performance trend of a stock or industry group relative to another stock, group or index. This comparison removes the emotion from the marketplace. Many times a drop in relative strength can indicate a coming drop in actual price of the security. Do not confuse with Wilders's RSI.

The concept is to identify which stock or market sector is performing the best. Assuming that trends will continue to persist for some time, it is more probable that before a stock price will drop sharply it will first loose relative strength against other stocks. This would indicate a sell prior to such a price drop. An increase in relative strength does not necessarily indicate that the index is heading up, but it does signal a buy alert.

1.25 TRIX

TRIX - TRiple eXponential

TRI-ple eXponential. TRIX displays the % rate-of-change of a triple exponentially smoothed moving average of the closing price of a security. (Calculated as a one period rate of change of the third exponential moving average pass of the closing price). Designed to filter out insignificant cycles - those smaller than the number of moving averages specified. Trades should be placed when the indicator changes direction.

1.26 MACD

MACD - Moving Average Coverage/Divergence

This indicator uses three exponential moving averages, a short or fast average, a long or slow average and an exponential average of their difference, the last being used as a signal or trigger line. To fully understand the basics of MACD you must first understand simple moving averages. The Moving Average Convergence/Divergence indicator measures the intensity of public sentiment and is considered by Gerald Appel, its developer, to be a very good indicator signaling market entry points after a sharp decline. This indicator reveals overbought and oversold conditions and generates signals that predict trend or price reversals. It provides a sensitive measurement of the intensity of public sentiment and can be applied to the stock market, to individual stocks or to mutual funds. In some instances, it can provide advance warning of reversals allowing you to buy into weakness and sell into strength.

Note: You can change parameters of MACD averaging ranges in preferences window.

Default values are fast avg. = 12; slow avg. = 26; signal = 9

1.27 OBV

OBV - On Balance Volume,

OBV was created by Joe Granville, the father of OBV analysis. This is a running total of volume that relates price changes and volume and shows accumulation and distribution action.

The classic OBV is calculated by ADDING today's TOTAL VOLUME to a cumulative total when PRICE CLOSES HIGHER than YESTERDAY'S close and SUBTRACTING today's TOTAL VOLUME from the cumulative when the PRICE CLOSES LOWER than YESTERDAY'S close. If price remains the same, then the OBV is not changed. The actual amount of the price change is irrelevant and only the direction of change is significant for these calculations.

This indicator defines trends by showing underlying strength of price movements over time. A solid price trend is assumed to be accompanied

with a stronger volume movement in the same direction. OBV analysis assumes that volume trends lead price trends and that OBV changes generally precede price changes.

Look for divergence or non-confirmation between price and volume movements. A stock that is trending in an upward direction and starts to experience higher volume on days of lower closing prices usually indicates an end to the current trend. Look for changes or breakouts in OBV trends. Sell short when the OBV makes a downside breakout and buy long when the on OBV upside breakouts.

1.28 Stochastic slow

Stochastics is an oscillator that measures the position of a stock or security compared with its recent trading range indicating overbought or oversold conditions. It displays current day price at a percentage relative to the security's trading range (high/low) over the specified period of time. When the closing price is near the top of the recent trading range (above 80%), the security is in an overbought condition and may signal for a possible correction. Oversold condition exists at a point below %20. Prices close near the top of the range during uptrends and near the bottom of the range during downtrends.

$$\text{Fast Stoc} = \%K = \frac{(\text{today's close}) - (\text{low price in period } n)}{(\text{high price in period } n) - (\text{low price in period } n)} \times 100$$

In a Slow Stochastics, the highs and lows are averaged over a slowing period. The default is usually 3 for slow and 1 (no slowing) for fast.

The line can then be smoothed using an exponential moving average, Weighted, or simple moving average %D. Confirming Buy/sell signals can be read at intersections of the %D with the %K as well.

1.29 Ultimate

Ultimate Oscillator -

this indicator is a combination of three moving averages each of different range and weight. The purpose for that is to make it more reliable. Oscillator swings above 50% line are buy signals, and falls below 50% line are sell signals. You can also look for the support and resistance lines.

1.30 Risk-Yield Map

This map provides fast information about risk and possible yields. Risk is calculated as standard deviation of weekly yields. On the X axis risk is presented and on Y axis - yield.

Thus in the upper part of the map we've got stocks with giving best yield, with risk increasing from left to right side of the map.

1.31 Main Menu

There are following menu items in main menu:

Program
Stock
Quotations
Charts
Portfolio

1.32 Program menu

Here we've got following items:

About...	- general program info (ARexx port name, Public screen name)
Registration	- how to register
Preferences	
- Charts	- invokes main chart preferences
- Palette	- invokes palette requester
- Screen mode	- invokes screen mode requester
- Save	- save changed preferences to the disk
Save database	- save changed quotation database
Quit	- exits the program

1.33 Stock menu

Here following items come :

Add new...
Remove
Split
Company's info
Financial data

1.34 Quotations Menu

Here we've got:

Import ASCII
Import from KINGa
Import from teletext
Manual entry

Remove quotation	- removes quotation of single stock
Remove session	- removes quotations of all stocks in given date

1.35 Charts Menu

There are following items:

Arrange - scale/arrange all chart windows

Main chart
Turnover
ROC
RSI
MACD
OBV
Stochastic Slow
Ultimate
Relative Strength
TRIX
Risk-yield map

1.36 Portfolio menu

Here we've got 5 items:

Portfolio management
Commission table
Income tax - this sets (dividend) income tax

Add stock - add specified number of shares without changing cash
Remove stock - removes specified shares without changing cash

Print - this prints the contents of portfolio
Export ASCII - this saves contents of portfolio in ASCII file

1.37 Import from teletext

AmiBroker can import quotation data from teletext data file.
Unfortunately this is a Warsaw Stock Exchange (WSE) specific feature.
Thus this option is unusable for non-Poles (SORRY).

Other import functions will be added upon request. So let me know what you need.

1.38 Import ASCII

Version 1.6 introduces easy and flexible quotation import feature.
The format of ASCII data file is very simple (take a look at example files
in 'Examples' subdirectory).

ASCII stock data file format description:

1\textdegree{} Every line starting with * (asterisk) or ; (semicolon) or "#" (←
hash)

is treated as a comment and ignored by the program

2\textdegree{} Every line starting with command is interpreted in special way, ←
 commands start
 with '\$' sign. Currently AmiBroker recognizes 2 special ASCII import commands:

a) \$NAME - sets stock name

Example: \$NAME APPLE

This is effective until changed with next \$NAME command

b) \$FORMAT - defines quotation data format

Allowable parameters:

DATE_USA - date in US format: MM-DD-YY
 DATE_CDN - date in Canadian format: DD-MM-YY
 DATE_INT - date in international format: YY-MM-DD

VOLUME - volume of trade \ ←
 VOL1000 - volume in thousands of shares - choose only one of these
 VOLMIL - volume in millions of shares /
 OPEN - opening price
 CLOSE - closing price
 HIGH - highest price
 LOW - lowest price

DATE_xxx field is obligatory and must come first in the line.

You can use '-', '/' or '\' as day/month/year separators, or omit ←
 separators
 at all.

Examples (for December 5th, 1995):

DATE_INT: 95-12-05 or 95/12/05 or 95\12\05 or 951205
 DATE_CDN: 05-12-95 or 05/12/95 or 05\12\95 or 051295
 DATE_USA: 12-05-95 or 12/05/95 or 12\05\95 or 120595

After that you can provide VOLUME, OPEN, CLOSE, HIGH and LOW fields in ANY ←
 order,

but remember that this should conform your data format.

You don't have to specify any of OPEN, HIGH or LOW.

Only CLOSE and VOLUME must be provided.

Example: \$FORMAT DATE_INT VOLUME OPEN CLOSE HIGH LOW

or

\$FORMAT DATE_CDN CLOSE VOL1000

3\textdegree{} AmiBroker recognizes decimal as well as true fractions in price ←
 data. True fractions
 must follow the whole value after at least single space. For example you can ←
 specify:

5.33

or

5 1/3

AmiBroker is not limited to any kind of fraction, if you wish you can write ↵
even: 5 333/999

1.39 Import from KING service

AmiBroker can import quotation data from KING data file.
Unfortunately this is a Warsaw Stock Exchange (WSE) specific feature.
Thus this option is unusable for non-Poles (SORRY).

Other import functions will be added upon request. So let me now what you need.

1.40 Adding a new stock

After selecting this function you will be prompted for new stock name.
This name is a short form of the firm. Please try not to exceed 15 chars.
For proper import functioning you should enter the name with CAPITALS.

1.41 Removing a stock

After choosing this function you will be asked for confirmation of
stock removing. Note well that this operation can not be undone !!!

1.42 Split a stock

This option provides easy way of handling stock splits.
Program will try to guess split date and ratio by analysing quotations.
If there is just a single quotation after split this should work, if not
you will be asked for split date and ratio.
Note well that this operation can not be undone !!!

1.43 ARexx On-line reference

AmiBroker has built-in ARexx port with powerful command set which enables
you to write your custom scripts performing different tasks.

Sample ARexx script is included.

AmiBroker ARexx port is accessible by name "AMIBROKER.x" where x is 1,2,3, ...

Actual port name can be found in 'About' requester, but in most cases
you can assume that port name is "AMIBROKER.1".

When using any of the AmiBroker's internal commands (described below) please keep in mind that ARexx commands are parsed twice: first by ARexx server while interpreting the script, second by AmiBroker using the `dos.library/ReadArgs()`. Please then, put the commands into sigle quotes and double-quote this parameters which include spaces to prevent from regarding them as string delimiters.

Example: 'REQUEST BODY="This is example" TITLE="Title with spaces" BUTTONS="Yes| ←
Oh no" '

AmiBroker passes command results to your script using special ARexx variable `RESULT`. Error code is passed in `RC` variable, possible values of error code are:

```
0 - success
5 - warning
10 - error
20 - fatal error
```

AmiBroker internal commands description in alphabetic order:

```
Command:      ADDQUOTATION
Template:      STOCK/A,DATE/A,VOLUME/A,PRICE=CLOSE/A,OPEN/K,HIGH/K,LOW/K
```

Function: Add a quotation to the database. If selected quotation already exists this function modifies existing price/volume data.

STOCK - (STRING) specifies stock name (case sensitive)

DATE - (STRING) YY-MM-DD, quotation date

VOLUME - (INT) volume of trade

CLOSE - (FLOAT) closing price

PRICE - synonym to CLOSE

OPEN - (FLOAT) opening price

HIGH - (FLOAT) day's high

LOW - (FLOAT) day's low

This function will fail if there's no stock with specified name - use `ADDSTOCK` to add new stock name to the database.

This function does NOT refresh the charts.
Use `REFRESH` or `ARRANGE` to do that.

```
Command:      ADDSTOCK
Template:      NAME=STOCK/A,CONT/S
```

Function: Add a new stock to the database

STOCK - (STRING) defines stock name (case sensitive)

NAME - synonym to stock

CONT - switches continous quotation mode on.

```
Command:      ARRANGE
Template:      -none-
```

Function: Arrange and refresh all opened chart windows

Command: DATABASE

Template: CHANGE/S, NOCHANGE/S, SAVE/S, STATUS/S

Function: Database control

CHANGE - switches database status to 'changed'
NOCHANGE - switches database status to 'not changed'
SAVE - saves database to disk (if changed)
STATUS - query for database status, returns
1 - if database has been changed
0 - if database has not been changed

Note: to force saving use: 'DATABASE CHANGE SAVE'

Command: IMPORT

Template: ASCII/S, TELETEXT/S, KING/S, FILE/K

Function: Import quotation data from a specified file.

ASCII - selects ASCII import mode
TELETEXT - selects TELETEXT mode (Warsaw Stock Exch.)
KING - selects KING mode (WSE)

FILE - (STRING) specifies file name. If none specified
bring up file requester.

Command: QUIT

Template: FORCE/S

Function: Quit the program.

FORCE/S - suppress requester asking for confirmation

Command: REFRESH

Template: -none-

Function: Redraw all opened charts

Command: REMQUOTATION

Template: STOCK/A, DATE/A

Function: Remove specified quotation of stock.

STOCK - (STRING) stock name (case sensitive)
DATE - (STRING) quotation date (yy-mm-dd)

This function does NOT refresh the charts.
Use REFRESH or ARRANGE to do that.

Command: REMSTOCK
Template: NAME=STOCK/A

Function: Remove specified stock from the list
STOCK - (STRING) stock name (case sensitive)
NAME - the same as STOCK (synonym)

CAUTION!

This function can NOT be undone. It removes all stock data from memory AND from the disk!!! Make sure that you know what you are doing !!!

Command: REQUEST
Template: BODY/A, TITLE/K, BUTTONS/K

Function: Show 'easy' requester.
BODY/A - (STRING) defines requester body text. Multiple lines are allowed - use '|' as a new line symbol.
TITLE/K - (STRING) requester title
BUTTONS/K - (STRING) requester buttons. Multiple buttons are allowed - use '|' to separate individual button's texts.

Command: SCREEN
Template: FRONT/S, BACK/S

Function: Bring AmiBroker screen to FRONT or put it to BACK

Command: SELECT
Template: STOCK/K, DATE/K

Function: Select a stock or/and quotation (and mark it with a hairline on the chart)
STOCK - (STRING) stock name (case sensitive)
DATE - (STRING) quotation date (yy-mm-dd)
if specified one doesn't exist the nearest next will be selected.

Command: VERSION
Template: -none-

Function: Return program version tag (STRING).

1.44 How to register?

If you want to get full working version of AmiBroker, you should send me proper registration request (see example registration form). Please supply a valid and fully qualified address for shipment.

Registered users receive a keyfile which enables all features of the program. The keyfile is valid for minimum 2 general program updates (distributed in AmiNet).
More upgrades available for very small fee \$5 / 7DM.

Please state if you want to get keyfile via e-mail or ordinary mail.

Registration fee is: \$15 US / 20 DM (shipment by ordinary mail)
 \$10 US / 15 DM (shipment by e-mail)

Please send CASH. I can NOT accept anything else.

The address for requesting registration is:

Tomasz Janeczko
ul. Wroblewskiego 25/1005
PL 51-627 Wroclaw, POLAND.

For all other requests:

E-Mail: tjaneczko@asic.ict.pwr.wroc.pl

1.45 Registration form

AMIBROKER REGISTRATION FORM

To:
Tomasz Janeczko
ul. Wroblewskiego 25/1005
PL 51-627 Wroclaw POLAND

Please take my registration as a AmiBroker user.

I want to get keyfile by:

 () - ordinary mail (\$15 US / 20 DM)
 () - e-mail (\$10 US / 15 DM)

I enclose registration fee in cash.

Name and Surname: _____

Full address: _____

E-mail: _____ Phone: _____

Hardware config. _____

Comments _____

Date: _____ Signature: _____

1.46 Contact addresses

Please send all requests, suggestions, etc to:

E-mail: tjaneczko@asic.ict.pwr.wroc.pl
janeczko@zakus.ita.pwr.wroc.pl

or

Tomasz Janeczko
ul. Wroblewskiego 25/1005
PL 51-627 Wroclaw POLAND

1.47 Future releases

AmiBroker is still under development. So new releases come out every month. If you are registered user you can easily get updates from your nearest AmiNet mirror.

There are many plans about AmiBroker, for example:

- adding new indicators
- fundamental analysis
- improved risk-yield map with zoom feature
- automated portfolio construction (Markowitz model)
- context-sensitive help (AmigaGuide)
- registered users' proposals

Everything depends on you! If I get enough support there will be future versions, if not some things may wait forever.

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