ASPEN GRAPHICS® FOR WINDOWS®
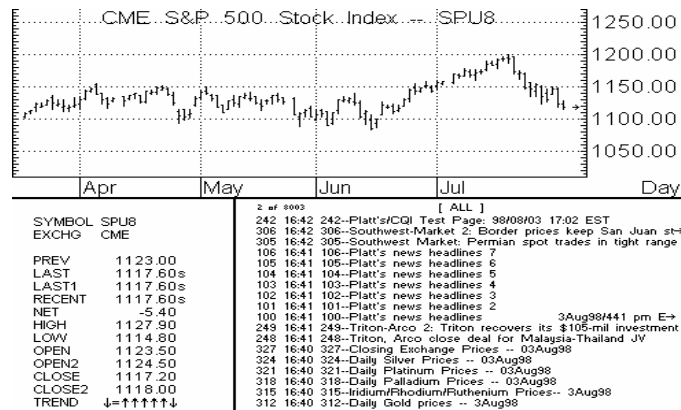## TRADE WITH CONFIDENCE

Aspen Graphics for Network Support

I.   Windows & Pages

In your use of Aspen Graphics you will hear the terms "Windows" and "Pages". What are they?

A **window** is one area of information on your screen. In the example below, a chart window, a quote window and a news window are displayed. Each of those is a unique & separate window. You can have as many windows on your screen at one time as you would like. When a window is retrieved from memory, it will overlay what is already on the screen when it is recalled.

A **page** represents the entire contents of the screen. A page is made up of one or more windows. The example **page** below has 3 components: the chart window, the quote window and the news window. When a page is retrieved from memory, it first clears the screen and then displays the retrieved page.

II.   Menus

Menus in Aspen Graphics are context sensitive, which means the program is smart enough to know what menu you need based on the active window on your screen. To display a menu, press and hold the right mouse button and click left. If no window is displayed on the screen (you just have the blue background with black gridlines), the Main Menu will be displayed. If there is a window displayed on the screen, placing the mouse arrow anywhere on the window and holding the right mouse button & clicking left will display the application menu specific to the active window. Select from the menu by highlighting your choice and clicking left or tapping Enter .

III.   Troubleshooting From A Workstation

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There are two special types of windows on a workstation that can aid in troubleshooting. These are the Network Access and Status windows.

The Network Access Window (keyboard command is **.ACCESS** ⎡Enter⎤)

This window is used to answer several important questions:
User: *What is the login name for the user?*
Server: *To which server is the user attempting to connect?*
Data Feed: *Which datafeed is being used? (this helps with symbology)*
Security: *Are the user's entitlements feed controlled or Admin controlled*
Session: *Is the session Open or Closed?*
Error Tag: *What is the ERROR TAG message? (TCP broken or abandoned; User Not Authorized; etc…)*
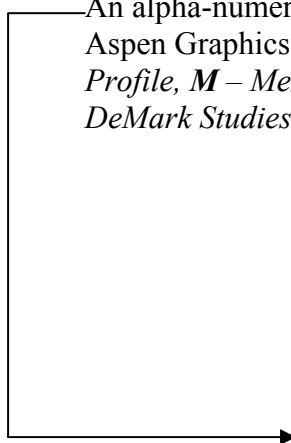
```
            Aspen  Session  Access
      User:  NYARG6@NY.K48422.BRIDGE.COM (bound to profile "135744")
    Server:  200.200.200.4
 Data Feed:  BridgeFeed
  Security:  ARES, Datafeed-controlled
   Session:  OPEN

 Error Tag:
     Notes:
```

To remove the access window from the screen, tap the ⎡Esc⎤ key.

**The Status Window** (keyboard command is **.STAT** ⎡Enter⎤)
On the client level, the status window is used to identify the software version and entitlements for the user.  The Aspen Graphics version number appears in the lower portion of the window, displayed in yellow text.  The version number is critical in troubleshooting any problems with Aspen Graphics workstation software.

An alpha-numeric code at the bottom left corner of the window specifies the Aspen Graphics features to which the user is entitled: *C* – *Charting*, *P* – *Market Profile*, *M* – *Mesa Studies*, *O* – *Advanced Options or o* – *Basic Options*, *7* – *DeMark Studies*, *1* – *One Screen.*

```
Tue, Aug  8, 2000          87
12:44:30 PM  EDT
D-Cache      C-Cache
   81408       0/50
  Static       Dynamic
  81:0,451     0:0,0
Block  Sizes    Used/Blks
184,0,269   836/26488
Aspen          WORKSTATION
V3.70b, May 16 2000
Build: OFFICIAL 2634
CPMO71          2E36DC1D
NYARG6@NY.K48422.BRIDGE.
ASPEN (bf)
```

To remove the status window from the screen, type **.STAT** ⎡Enter⎤ again.

IV. Important Troubleshooting Pages

A list of defined pages on the workstation can be displayed by left clicking on File\Retrieve Page. Some of these pages are unique to the workstation, and others are default pages loaded with the software. Some of these pages are particularly helpful in troubleshooting problems with the software.

Cht_1 – Left click on Cht_1 from the List of Pages; this will bring up a full screen *daily* bar chart for your troubleshooting purposes. *When troubleshooting charting problems, it is critical to determine both the time frame of the chart and the symbol being charted.* To change the charted symbol, simply type in the new symbol, for example, IBM Enter. To change the chart to an intraday time frame, type in the amount of minutes and Enter. For example, to change to a 60 minute chart, type 60 Enter. Any number between 0 and 1439 minutes can be used as the time frame of the chart. For historical charts, type in .day, .week, .month, .quarter or .year. Note the use of the period preceding the commands for historical charts. The period is necessary to distinguish these as commands, and not symbols.

QT_40v or Quote_40 – This quote page can be displayed by left clicking on File\Retrieve Page. Quote Pages display live data as it is received from the data provider. If this page is not updating during trading hours, the first course of action is

to check the status window at the Aspen SERVER and determine whether the number in the BYTES IN field is incrementing. If not, this indicates a problem with data being written to the server and Aspen Graphics technical support should be contacted immediately for further troubleshooting.

Full_News – This is a full screen news window, which should contain scrolling headlines. In troubleshooting news problems, it is important to note the time and/or date of the current headline (the one at the top of the list) and also note any news categories selected. The category selected is displayed in yellow at the top of the window. To read a story, left click on the headline. To return to the list of headlines, left click again.

```
1 of 2259            Index of Futures World News (FWN) Stories
    566  16:18  WRAP: Semiconductor stocks fall for second day on analyst downgrade
    565  16:17  NY Natural Gas: Soars above $5 after low storage injection
    564  16:17  BRIDGE: GLOBAL STOCK MARKET LEVELS AT 16:11 ET -Sep 6
    563  16:17  USDA opening livestock market summary-Sep 6
    562  16:16  South Africa 10-Day Weather: Central areas wet
    561  16:16  Lexington, Kentucky livestock auction-Sep 6
    560  16:15  USDA Texas Panhandle/W. Oklahoma direct cattle sales-Sept. 6
    559  16:15  USDA W. Cornbelt opening direct hog/hot carcass value-Sep 6
    558  16:15  USDA Meat price report: 1115 national carlot beef-Sep 6
    557  16:14  USDA Illinois direct cattle sales-Sep 6
    556  16:14  USDA Delmarva broiler/fryer market-Sep 6
    555  16:14  USDA Estimated daily livestock slaughter-Sep 6
    554  16:14  USDA Iowa S. Minnesota Weekly Avg Hog Wts-Sep 6
    553  16:14  USDA Meat Price Report: 1500 National Carlot Pork-Sep 6
    552  16:13  USDA Meat Price Report: 1500 National Carlot Pork-Sep 6
    551  16:12  USDA national broiler market-Sep 6
    550  16:12  PM CBT grain/soybean/rice receipts/certificates-Sep 6
    549  16:12  USDA W. Cornbelt closing direct hog/hot carcass value-Sep 6
    548  16:12  Global Commodity/Financial Futures Snapshot
    547  16:11  Global Commodity/Financial Futures Snapshot
    546  16:11  USDA E. Cornbelt closing direct hog/hot carcass value-Sep 6
    545  16:10  US DEBT FUTURES ALERT: Bonds feel weight of corporate supply
    544  16:10  US DEBT FUTURES ALERT: Bonds feel weight of corporate supply
    543  16:09  USDA Iowa S. Minnesota Early Direct Cattle Sales-Sep 6
    542  16:09  US DEBT FUTURES ALERT: Bonds feel weight of corporate supply
    541  16:08  US DEBT FUTURES ALERT: Bonds feel weight of corporate supply
    540  16:07  USDA daily midwest livestock summary-Sep 6
    539  16:07  USDA Minneapolis cash grain close-Sep 6
    538  16:06  USDA Minnesota wheat protein/premium/to arrive bids-Sep 6
    537  16:06  USDA Texas cash grain prices-Sep 6
```

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Superquote – This page is one of the most helpful diagnostic tools when troubleshooting. Superquote gives you a lot of details about one symbol, including: a description of the symbol in question, the exchange on which it trades, opening and closing times, time zone in which it trades and the trading units.

```
              SUPERQUOTE - This page shows all quote fields available.

              SYMBOL  IBM        Sbase  IBM          Sext
              DESCRIPTION      Int'l Business Mach
              EXCHG            NYSE
              EXCHG-DESCRIPTION  New York Stock Exchange
              Expire            Xmonth              Strike

    PREV       131$\frac{06}{}$      NET        0$\frac{06}{}$     LAST      131$\frac{5}{8}$a  RECENT      131$\frac{3}{8}$
    OPEN       130$\frac{7}{8}$      HIGH       134$\frac{7}{8}$    CLOSE               TREND  ====↓↑↓↑
    OPEN2                 LOW        130$\frac{3}{8}$    CLOSE2              MID         131$\frac{14}{}$

    BID        131$\frac{1}{4}$ m   ASK        131$\frac{5}{8}$ m  TRADE             131$\frac{3}{8}$
    BIDSIZE     100        ASKSIZE     100        TRADESOURCE   t
    BIDTIME     16:13      ASKTIME     16:18      CONDITION

    BBID       131$\frac{1}{4}$ m   BASK       131$\frac{5}{8}$ m
    BBIDSIZE    100        BASKSIZE    100
    BBIDTIME    16:13      BASKTIME    16:18                OPEN INTEREST
    BATE       a           UNITS       32             VOLUME    6457100
    TYPE       2           OPEN/CLOSE TIME   tz        TVOL      6457100
    DOLLARS    1.000      1  9:30 -  16:00   31        UVOL      2012200
    OTYPE                 2          -                 DVOL      1714800

    LAST1      131$\frac{5}{8}$a  TICVOL      100   TIME   16:18       FORMULAS
    LAST2      131$\frac{3}{8}$   TICVOL2    3000   TIME2  16:15    PCHG       0.143
    LAST3      131$\frac{3}{8}$   TICVOL3    1900   TIME3  16:15    RANGE
    LAST4      131$\frac{3}{8}$   TICVOL4     100   TIME4  16:15    Moneyflo
    LAST5      131$\frac{3}{8}$   TICVOL5    1400   TIME5  16:14
    LAST6      131$\frac{3}{8}$↓  TICVOL6     600   TIME6  16:13
```

V.   Efficiency Tips

Saving Pages - To save a page, left click on File/Save Page and type in a unique name for the page, following the rules below. The page will now be listed on the List of Pages (File/Retrieve Page). Aspen does not automatically save changes made to the user's page, but an AutoSave feature can be toggled on and off from the List of Pages. AutoSave on will create drafts of the screen layout, about once a minute, named Autosave1 – Autosave5. It is strongly recommended to turn AutoSave off once the custom page has been built.

> *THREE things that CAN NOT be used as a name for a Page (a message will appear that says "Reserved"):*
>
> **A Symbol**: do not use a symbol (such as cz7, sph8, ibm, indu, etc.) as the name of your page, although symbols can be used as *part* of a name (ex: ibmchart2)
> **A Number**: do not use a number as the name of your page, although numbers can be used as *part* of a name (see previous example).
> **An Aspen command**, or the name of a previously saved page that you don't want overwritten.

Once you save a page, you will find it by left clicking on **File/Retrieve Page**. This will display the List of Pages. Your custom page name should appear on this menu in alphabetical order.

Saving Windows – Any window on the screen can be saved for future use by typing in **.WSAVE** Enter. The rules for saving windows are identical to the rules listed above for saving a page. Your window will be listed on the Window Selection Menu (File/New) under the corresponding heading.

Drag & Drop Feature -- A quick way to display a symbol in a window without typing:

1) Place the mouse pointer on the symbol
2) Press and hold down the left mouse button until a rectangle attaches to the pointer
3) Drag the rectangle into the chart
4) Release the mouse button.

The selected symbol will now appear in the chart.   You may drag & drop from a quote window to a chart, chart to quote, quote to time and sales, etc….

Function Keys -- Assigning a page or command to a function key bypasses menu clicking for quick recall of commonly used functions in the program. To assign a page or command to a function key, type Ctrl F or **.keys** Enter. **PgUp** or **PgDn** on the keyboard to scroll through functions assigned to keys, or left click on **Next** or **Previous** at the bottom of the key menu.

NOTE: *** keys** are reserved as integral functions of the software, so don't assign other uses to them or software performance could be affected.

Highlight the key for assignment (e.g. F1), left-click to open an edit box , type name of page, window or command, `Enter`, then **Done.**

`Ctrl``K` displays a key assignment template along screen's bottom (and toggles it off.)  Holding down `Shift`, `Ctrl`  or `Ctrl`/`Shift` keys display assignments to those key combination.

Click & Hold NewsWord Scan -- Here's a *great* way to scan the headlines of a news window for a particular word:
1. Find a word in the headlines of a news window that you're interested in;
2. Click and hold the left mouse button on that word (similar to above) until the rectangle appears;
3. When you release the left mouse button, the headlines will be scanned for the chosen word.

News Search - you can scan the headlines of news stories for any keyword or combination of keywords. For example, in a news window, type:

/drought   for all stories with the word "drought" in the headline

/corn&oil   for all stories with the words "corn" and "oil" in the headline

/corn,oats for all stories with the words "corn" or "oats" in the headline

/(soybean&oil)%crude   for all stories with the words "soybean" and "oil"
                                                  but not the word "crude" in the headline

Tables -- For a tabular readout of the values on a chart, just bring up a Graph Menu and select **Table**. Tables have their own menu to make them easy to navigate.

 # and @ Macros --   Using these macros instead of the specific contract, like hun0, will make your charts and quote pages update (rollover) automatically when the front month expires**.**

$\#$ brings up the **front month** of a futures contract **Ex: ng#** is the front month of natural gas

$\#1$ is the **first month out** of a futures contract; **ng#1** is the first month out of natural gas (any number can be used in place of the 1 in the above example)

$@$ brings up all currently trading contracts; **cl@** will display all crude contracts currently trading

$@6$ brings up the front six trading contracts; **cl@6** will display the front 6 months of crude (any number can be used in place of the 6 in the above example)

F-12 key – You can recall commands previously typed in by tapping the `F12` key. Each command will be recalled starting with the most recent and going back to the oldest. If you tap the `F12` too many times and need to scroll forward, press `Shift` `F12`. This is a great way to clone Formulas and Alarms, and saves lots of time whenever there is a need to repeat previously typed information.

Keyboard Shortcuts

Note: these will not work unless you have an MKEY file in the user's directory.

What You Would Like to Do	An Easy Way To Do It

MENUS

Display the Main Menu	`Shift` `~`
Display the menu for the active window	`~`
Display the List of Pages	`Ctrl` `L`
Display the Window Selection Menu	**.win**
Display the Formula Listing	**.form**
Display the Alarm menu	**.ala**

CLEARING

Clear a Menu off the screen	`Esc`
Clear a Window off the screen	`Ctrl` `D`
Clear the Status Window off the screen	`Ctrl` `E`
(the little window in the lower *right* corner of the screen)	
Clear the Console Window off the screen	**.cons**
(the little window in the lower *left* corner of the screen)	
Clear the Open/High/Low/Close box off of a chart	`End`
Clear everything off the screen	**.clear**

SAVING

Save as a Page	`Ctrl` `V` or **.save**
Save as a Window	`Ctrl` `U` or **.wsave**

CHARTING

Bring up a half-screen chart	**.dc**
Bring up a full-screen chart	**cht_1**
Change to Candlesticks	`Ctrl` `N` or **.candle**
Change back to Bar Chart (also removes overlays)	`Ctrl` `B`
Change to Point & Figure	**.p&f**
Change to a tick chart	`0` (zero) `Enter`
Clear the cursor & the Open/High/Low/Close box	`End`

QUOTES

Clear data in a Quote Page	, , `Enter`

PRINTING

Print the active window	**.print**

COMMANDS

Display the last command	`F12`
Repeat the last command	`F12` `Enter`

VI. Other Aspen Graphics features

Once you have mastered the basic navigation skills of Aspen Graphics, you may want to check out these other features:

a. **Alarms**—set an alarm on price levels, study values or custom formulas.
b. **Color Rules**—Act as a visual alert on a chart by coloring bars a specific color when your condition is met.
c. **DDE**—Export data from Aspen Graphics into Excel OR create a symbol for custom data you have databased in Excel.
d. **Formulas**—Aspen Graphics' Formula Writer allows you to create virtually any custom indicator to display in charts, quote windows or to export via DDE.
e. **Aspen Optionalysis**—Basic and Advanced Aspen Optionalysis are special subscription packages tailored to options analysis. Advanced Aspen Optionalysis includes Option Books, an incredibly flexible organizational tool to keep track of your portfolio.

Consult your Aspen Graphics User's Manual for specifics on these features or ask any Customer Support representative or Trainer for more information on these features.