

COMMENT ON HARD DISK SETUP

Though you may have installed a *Master the Markets* program onto your hard drive, you must be at the A prompt, with the program disk in drive A to start the program.

LOADING THE PROGRAM

To start playing a *Master the Markets* game,

1. Place the program disk of your choice into drive A.
2. Type A: and press ENTER to move to the A prompt.
3. Type START and press ENTER.

HELPFUL NOTES

- The programs will only work in drive A.
- The program disks may not be copied to another disk or hard drive.
- Only use the Setup routine the first time you use a program.
- If you are asked for a "Batch File" disk, it means your program disk.

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MILLIONAIRE II

USING THE PROGRAM

If you haven't already done so, use the Setup and Loading Instructions on page 1 of this user's guide to set up Millionaire II for your system.

To start playing Millionaire II from the DOS prompt, place your program disk in drive A, type START and press ENTER. The next thing you will see is Millionaire II's opening screen. When you are done playing Millionaire II, you will be returned to the DOS prompt.

How MANY PLAYERS?

Millionaire II is designed to be played by one or two players at a time. Of course, a group could play the game, each member making decisions as part of a stock investment firm.

The first thing you will see when starting up Millionaire II is the title screen. After a 4 second delay (or if you press any key), the player menu screen will appear.

As we describe the many options in Millionaire II, we suggest you follow along by trying the features described on your computer.

PLAYER MENU

The player menu screen will appear next. The player directory keeps a record of each player's name, saved game status, and past performance history. As you play Millionaire II, you will always make your decisions by selecting choices from menus. The bar over "Add a new player" is called the menu bar and what it is covering is called the active item. You select the active item from the menu by pressing the ENTER key. Try pressing the ENTER key and you will be prompted to enter your name in the player directory. Type your name and press ENTER when done. You can enter and record up to nine different players.

By using the up/down/left/right cursor keys on the keyboard, you can move the menu bar around the various menu choices. Pressing the HOME key will move the menu bar to the top menu item. Pressing the END key will move the menu bar to the last menu item. Try moving the menu bar around using these keys.

Pressing the ESC (Escape) key will cancel the current operation. You can press ESC at any time. Try pressing the ESC key and you will see the menu bar move to "Quit playing game." If you really wanted to quit, you would then press ENTER to select this item.

Also, the player menu (and the main menu, which you will see later) has letter key activation. For example, pressing "A" at the player menu will instantly activate "Add a new player."

ERASING AND RECALLING

The player directory menu has an option to erase any one of the nine players' names in the directory. Use this option to erase unwanted players from the directory.

If you start playing Millionaire II and decide to stop playing before the 91 weeks are up, the current game can be suspended. (See LEAVING CURRENT SESSION.) The option in the player directory menu, "Recall a saved game," will restore the simulation to the point in time at which you left it. In the player directory, to the right of each player's name is an indication as to which players currently have saved games on the disk.

Millionaire II can save up to nine games, one for each player in the directory. When a player creates a new game, and that player has an unrecalled saved game, it will be erased.

PLAYER HISTORY

You can display a historical report of any player's performance (as shown in Figure 1) by selecting "Display player history" from the menu and then selecting the appropriate player. This report shows the player's performance for the last seven sessions played, with an arrow next to the most recently played session.

FIGURE 1

| Player History -- Last 7 Sessions Brad Kingsbury | | | | |
|---|-----------------------|---------------------|----------------|------------------|
| | Starting Net Worth | Ending Net Worth | Ending Week | Ending Status |
| → | \$40,000 | \$45,489 | 63 | Professional |
| | \$40,000 | \$118,131 | 71 | Broker |

→ Last Session Played

When you save a game, the player history is not updated—you must complete the 91 week simulation or quit the session without saving, for the player history to be updated.

NEW GAMES

Now move the menu bar to "Start a new game" and press ENTER. If you have more than one player's name in the directory, you will be asked to specify the number of players (one or two) that will play this new session. After this, each player will be prompted for his starting status (as in Figure 2).

FIGURE 2

| Millionaire Release 2 Status Levels | | |
|-------------------------------------|-----------|--|
| Status | Net Worth | Investment Opportunities |
| Novice | \$10,000 | Buy Stocks but not on Margin. |
| Investor | \$12,000 | Buy Stocks on Margin. |
| Speculator | \$18,000 | Buy Stocks on Margin and Call Options. |
| Professional | \$40,000 | Buy Stocks on Margin, Call Options. |
| Broker | \$100,000 | Buy Stocks on Margin, Call Options, Put Options, and Sell Short. |

Brad Kingsbury, Select your starting Status ...

At this time, the computer creates a new stock market environment. You begin in week 14 of a 91-week simulation. Each week, you have the opportunity to buy and sell stocks and options.

With each new week, the stock prices change, just as they do on Wall Street. At week 91, your assets are converted to cash and you will receive a final status report to show your progress.

MODIFY SIMULATION

To experiment with the effects of interest rates, commission rates, and other rates, this option allows you to change different session values. After changing the values, you will be asked if you wish to make the changes permanent. Note that a saved game will not be affected by these changes.

RECALLING SAVED GAMES WITH Two PLAYERS

If a two player session is saved, the player directory will have identical numbers to the far right of the two players. For example, if a "1" is next to a player and another "1" is by another player, then these two players saved games in a two player session. In order to save a two player session, both players must separately save their games at the very same point in the game without advancing to another week. (See LEAVING CURRENT SESSION.)

ENTERING THE SESSION

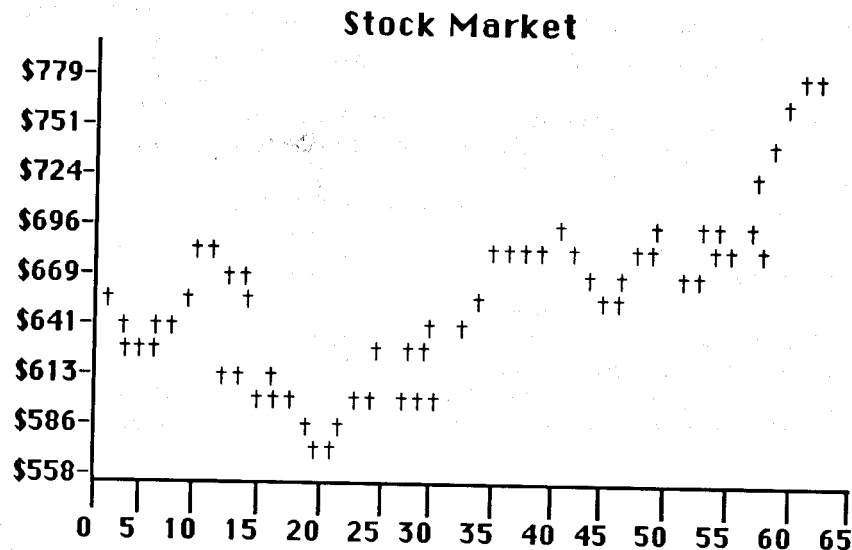
Once you have "Added a new player" to the player directory and have "Started a new game," then you will enter the weekly advance screens, which consist of the stock market graph, an industry group graph, weekly news, and the stock price changes. Each week, you will see this information.

STOCK MARKET GRAPH

Once the computer has created a new market environment, you will see a graph like the one in Figure 3, but with only 14 weeks of data on it. Remember that you begin the session in week 14. The stock market graph is the first thing you will see with each new week. It is a graph of the overall market trend. The graph above shows the market in week 61, the horizontal axis of the graph is in weeks and the vertical axis is the sum of the 15 stocks traded in Millionaire II. An upward trend indicates that, on the whole, stocks are increasing in price.

Press any key to continue the game.

FIGURE 3



INDUSTRY GROUP GRAPH

Next, you will see a graph for one of the five industry groups. An industry group consists of three stocks.

EXAMPLE: The computer industry consists of Digital Equipment, Hewlett-Packard, and Unisys. The vertical axis of the graph is the sum of the activity of the three stocks in the industry group. The industry trend is a much more precise indicator of stock movement, as only three stocks are involved. One of the five industry groups will be displayed with each new week.

Press any key to continue.

NEWS...

The computer will next display the week's Financial Journal (see Figure 4). News items can signal price movements or may be inconclusive. The stock price fluctuations in Millionaire II are tied to these news items. Of all the clues given in Millionaire II, the news items are the most significant.

FIGURE 4

Week 49 The Financial Journal

Total industrial production rose this quarter

Boeing's 747 jets found with cracks

Gulf Oil earnings per share decreased 14%

General Motors gets \$28.1 million bus order

**** Weekly Messages ****

..AND ITS EFFECT: STOCK PRICE CHANGES

Next, you will see the weekly stock price changes (see Figure 5). This is similar to picking up the newspaper each morning to see what happened in yesterday's trading. In the column labeled Stock are the abbreviated names of the fifteen stocks. To the right of the stock name is the closing price of the stock. This is the new stock price for the current week. The column labeled Change shows how much the stock price

changed from last week. A minus sign means that the stock price has fallen. Next to it is the percent of change. The columns labeled High and Low are the highest and lowest prices the stock has traded at since the start of the session. An up or down arrow indicates a new high or low, respectively, for that stock.

FIGURE 5

| High | Low | Stock | Close | Change | Percent |
|---|---------|-------|-----------|---------|---------|
| \$44.00 | \$27.28 | FRD | \$44.00 ↑ | \$1.48 | 3.3% |
| \$40.00 | \$26.56 | CYR | \$38.56 | -\$0.64 | -1.7% |
| \$44.68 | \$29.24 | GM | \$41.00 | \$1.48 | 3.6% |
| \$44.68 | \$30.68 | DEC | \$35.36 | -\$0.92 | -2.6% |
| \$56.56 | \$39.40 | HWP | \$52.68 | \$0.36 | 0.7% |
| \$41.88 | \$32.20 | SYS | \$40.24 | -\$0.08 | -0.2% |
| \$61.52 | \$31.52 | GLF | \$49.00 | \$0.68 | 1.4% |
| \$67.80 | \$30.28 | SHL | \$61.52 | -\$1.28 | -2.1% |
| \$69.40 | \$39.04 | THO | \$69.48 ↑ | \$0.64 | 0.9% |
| \$55.64 | \$32.00 | BOE | \$54.64 | -\$1.00 | -1.8% |
| \$62.00 | \$32.00 | LOK | \$55.00 | -\$1.44 | -2.6% |
| \$46.20 | \$31.76 | GD | \$46.20 ↑ | \$2.16 | 4.7% |
| \$80.52 | \$51.48 | GML | \$76.40 | \$2.60 | 3.4% |
| \$54.32 | \$31.92 | BF | \$35.36 | -\$0.32 | -0.9% |
| \$50.52 | \$38.60 | UB | \$48.48 | \$1.96 | 4.0% |
| 7 Losers ↑ New High 8 Winners The market Gained 6.2 points An average share Gained \$0.38 | | | | | |

Below the table is an analysis of the week's changes. This analysis includes the number of stocks that increased in price, the number of stocks that decreased in price, the total market change (sum of the 15 changes), and the average price change per share. Press any key to enter the main menu.

MAIN MENU

You are now at the main menu (see Figure 6). This is where you buy and sell stocks or options. An easy-to-understand menu is displayed when you first enter the main menu.

Entering the first letter of one of the command words will initiate the action described in the menu or moving the menu bar and pressing ENTER will activate a selection.

FIGURE 6

| Brad Kingsbury | Week 39 | Jim Zuber |
|--------------------------------|-----------------------------|--------------------------------|
| Status Investor | Main Menu | Status Professional |
| Net Worth \$12,470 | Advance | Net Worth \$41,567 |
| Cash \$12,470 | Quick | Cash \$41,567 |
| Interest Paid \$0 | Descriptions | Interest Paid \$0 |
| Interest Earned \$19 | Graphs | Interest Earned \$64 |
| Change from Previous Week \$19 | News | Change from Previous Week \$64 |
| | Costs | |
| | Portfolio | |
| | Buy | |
| | Sell | |
| | Worth | |
| | End | |
| | Advance to next week | |
| | Select action desired . . . | |

Typing A for Advance in the main menu will advance you to the next week. By typing Q for Quick, you can also advance a week and bypass the graphs, news messages, and stock prices which would normally appear.

In the main menu, the display is broken into 3 areas. The first, and most obvious, is the menu selection area in the center of the screen. It lists the different command options available. To the left and right of the screen are the player information areas, containing status information. For a single player game or a two player game, the left side is used to display the current statistics of one player. The right side is used to show the statistics of the second player of a two player game.

If a two player game is played, in order to switch between the players so both players can buy and sell, press the left and right arrow keys to move from one player to the other. The active player is the one whose name is covered by the player selection bar. If an option is selected from the main menu, then the active player is the one who will be doing the buying and selling. Millionaire II checks to see if both players have played in the current week. If only one of the players has played, Millionaire II confirms that the other player didn't accidentally get skipped that week.

A player's status area is made up of his name, current status, current net worth, cash in the bank, interest from the cash in the bank, interest paid due to loans, and the changes from last week's net worth.

FIGURING YOUR NET WORTH

The calculation of your net worth deserves a little more explanation. The following factors are considered when calculating your net worth:

1. The value of all your cash, stocks, and options.
2. Minus all margin accounts.
3. Minus potential sales commission costs at present prices.
4. Minus a 30% tax on the gross profit made on all stocks and options at current prices. If you lose money on a transaction, you will receive a 30% tax credit.

RESEARCHING YOUR PURCHASE

Before you buy a stock, you can research the company, price trends, past and present reports in the Financial Journal... anything that can help you predict future performance.

CORPORATE HISTORY

One way to research a stock is by reading the corporate history. Typing D for Description in the main menu will display a menu where you can select a company to get its historical background. To read the company history, move the menu bar to the appropriate company and press ENTER.

Once you have read the company history, you may wish to research how the company has fared in previous reports in the Financial Journal. Type N for News to display the week's Financial Journal (this information was seen previously as you began the week). At this point, you may research the Financial Journal all the way back to week 14. To read news reports in reverse chronological order, press the up and down arrow keys. HOME and END will take you to the top and bottom of the news messages.

When you have finished reading the news, press ESC to display stock price changes. Then press any key to return to the main menu.

GRAPHS

The stock graph shows the fluctuations of a particular corporation. Past stock price performance may give clues to future changes. Typing G for Graphs in the main menu will display the graph menu. (See Figure 7.)

From the graph menu, you can view either a single item by itself or two graph items at the same time. (See Figure 8.) To view one item, press ENTER twice when you have positioned the menu bar on the item you have selected. To select two items for simultaneous viewing, press ENTER once on the first item, move the menu bar to your second item and then press ENTER again.

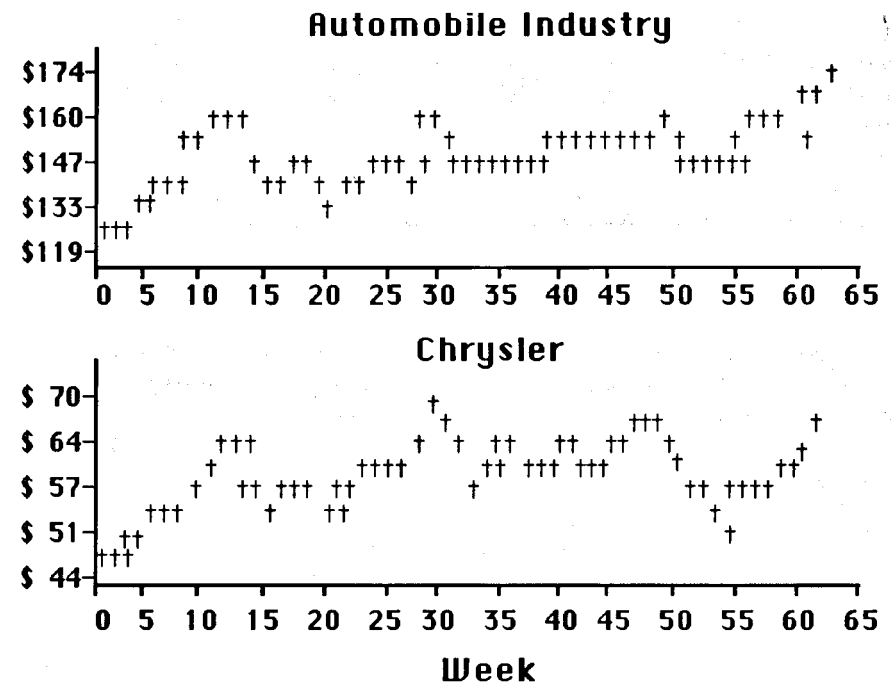
To see prior weeks that are not displayed on the graph, press the left arrow or HOME keys. The right arrow or END keys will move in the opposite direction.

FIGURE 7

| Graph Menu | | |
|----------------|---------------------|---|
| Overall Market | Industries | Companies |
| Stock Market | Automobile Industry | Ford Motor Chrysler General Motors |
| | Computer Industry | Digital Equipment Hewlett-Packard Unisys |
| | Oil & Gas Industry | Gulf Oil Shell Oil Texaco |
| | Aerospace Industry | Boeing Lockheed General Dynamics |
| | Food Industry | General Mills Beatrice Foods |

Select second trend to graph . . .

FIGURE 8



Millionaire II

WEEKLY PRICES

Typing C for Costs in the main menu will display the current stock and option prices. (See Figure 9.) The columns labeled Call and Put are the striking prices for the respective type of option. In Millionaire II, the striking price of a call option is \$5.00 above the current stock price, and a put option is \$5.00 below the current stock price. An option will expire 26 weeks from the purchase week.

Once the prices are displayed, you can press any key to return to the main menu.

FIGURE 9

| Stock and Option Prices | | | | |
|-------------------------|--------------|---------------|-----------------|---------|
| Symbol | Stock Prices | Option Prices | Striking Prices | |
| | | | Call | Put |
| FRD | \$52.16 | \$1.56 | \$57.16 | \$47.16 |
| CYR | \$64.76 | \$1.94 | \$69.76 | \$59.76 |
| GM | \$56.12 | \$1.68 | \$61.12 | \$51.12 |
| DEC | \$62.32 | \$1.86 | \$67.32 | \$57.32 |
| HWP | \$55.00 | \$1.64 | \$60.00 | \$50.00 |
| SYS | \$80.60 | \$2.41 | \$85.60 | \$75.60 |
| GLF | \$52.20 | \$1.56 | \$57.20 | \$47.20 |
| SHL | \$47.40 | \$1.42 | \$52.40 | \$42.40 |
| THO | \$40.12 | \$1.20 | \$45.12 | \$35.12 |
| BOE | \$53.12 | \$1.59 | \$58.12 | \$48.12 |
| LOK | \$81.20 | \$2.43 | \$86.20 | \$76.20 |
| GD | \$55.40 | \$1.66 | \$60.40 | \$50.40 |
| GML | \$42.00 | \$1.26 | \$47.00 | \$37.00 |
| BF | \$39.00 | \$1.17 | \$44.00 | \$34.00 |
| UB | \$50.00 | \$1.52 | \$55.00 | \$45.80 |

BUYING

Once you have done all the research you feel is necessary, you are ready to make a purchase. To buy stocks or options, type B for Buy in the main menu. You will see the Buy Selection Chart (shown in Figure 10). Using the arrow keys, move the menu bar to select the stock and type of investment you wish to make.

Some of the columns may be dimmed or of another color. This means that your current status level doesn't allow you to make this type of investment.

Millionaire II will then ask you to enter the number of shares you wish to purchase. The maximum number of shares or options you may buy will be shown at the bottom of the input dialog box. (The input dialog box is the small box in which Millionaire II requests input from the user.)

If you are purchasing options, you will be asked to enter the number of lots you desire. Remember that a lot is 100 options. Also note that options cannot be purchased on margin.

FIGURE 10

| Stock and Option Prices | | | | |
|-------------------------|----------|------------|--------|--------|
| Symbol | Stock | | Option | |
| | Buy Long | Sell Short | Call | Put |
| FRD | \$52.88 | \$52.88 | \$1.58 | \$1.58 |
| CYR | \$88.36 | \$88.36 | \$2.64 | \$2.64 |
| GM | \$68.12 | \$68.12 | \$2.04 | \$2.04 |
| DEC | \$79.00 | \$79.00 | \$2.36 | \$2.36 |
| HWP | \$73.40 | \$73.40 | \$2.19 | \$2.19 |
| SYS | \$74.64 | \$74.64 | \$2.23 | \$2.23 |
| GLF | \$42.44 | \$42.44 | \$1.27 | \$1.27 |
| SHL | \$50.56 | \$50.56 | \$1.51 | \$1.51 |
| THO | \$51.52 | \$51.52 | \$1.54 | \$1.54 |
| BOE | \$56.16 | \$56.16 | \$1.68 | \$1.68 |
| LOK | \$87.44 | \$87.44 | \$2.61 | \$2.61 |
| GD | \$57.68 | \$57.68 | \$1.72 | \$1.72 |
| GML | \$52.20 | \$52.20 | \$1.56 | \$1.56 |
| BF | \$54.60 | \$54.60 | \$1.63 | \$1.63 |
| UB | \$63.52 | \$63.52 | \$1.90 | \$1.90 |

Select Stock Name and Type ...

TRANSACTION REPORTS

Once you have finished entering the requested information, the buy order will be executed. You will see displayed a Buy Transaction Report (as in Figure 11). Press any key and you will be returned to the main menu. The net cost is your out-of-pocket cost for the stocks or options.

FIGURE 11

| | | |
|---|---|-------------------------|
| Brad Kingsbury | Buy Transaction Report Week 63 | |
| Status Professional | Stock Name: | Chrysler |
| Net Worth \$45,490 | Type: | Put Option |
| Cash \$34,599 | Quantity: | 50 Lots |
| Interest Paid \$2 | Price: | \$138.38 per Lot |
| Interest Earned \$65 | Cost: | \$6,918.86 |
| Change from Previous Week -\$181 | Margin: | \$0.00 |
| | Commission: | \$103.78 |
| | Net Cost: | \$7,022.64 |

VIEWING YOUR PORTFOLIO

Typing P for Portfolio in the main menu will let you display your portfolio (as in Figure 12). The bottom portion contains detailed information for the highlighted item. Move the menu bar to examine the information for the various items in your portfolio. 1

FIGURE 12

| | | | | | | |
|--|--------------------------------|------------------|-----------------|--------------------------|-------------------------|-----------------------------|
| Brad Kingsbury | | Portfolio | | | | |
| Status Professional | Sym | Type | Quantity | Current Price | Strike Price | Position /Profit |
| Net Worth \$45,635 | THO | Buy Long | 8 | \$29.64 | | \$136 |
| Cash \$41,622 | GM | Buy Long | 111 | \$43.04 | | \$3,608 |
| Interest Paid \$2 | HWP | Call | 4 | \$66.20 | \$71.20 | \$0 |
| Interest Earned \$65 | | | | | | |
| Change from Previous Week -\$36 | | | | | | |
| | Purchase Price: \$10.54 | | | Equity: 89% | | |

When examining a stock whose investment type is Buy Long or Sell Short, the Equity is the percentage of the stock you own (the balance is in borrowed funds). You must remember that if your equity drops below 30%, your margin account will be called and you may have to sell stock to restore the minimum level of equity.

Under the Position/Profit column, the amount shown for Buy Long has been determined by subtracting the gross purchase price from the current value of the stock. The amount shown for Sell Short has been determined by subtracting the current value of the stock from the gross purchase price. This does not take into account margin, taxes or commission. A positive value means your stock is worth more now than when you bought it.

If you are examining an option in your portfolio, the amount shown under the heading Position/Profit is the difference between the gross purchase price of the option and the present value. A positive value indicates that your options are worth more now than when you bought them. Two points to remember about options: first, the price of an option drops as the expiration date approaches. It is not unusual to have a stock price increase moderately, but have the call option price drop due to the passage of time. Second, when the stock price crosses the striking price, large profits are made since every \$1.00 change in stock price is reflected in the option price.

To return to the main menu, press ESC.

Millionaire II

BACK AT THE PLAYER MENU

After you have quit or saved your current session, you will be returned to the player menu. From here you can exit *Millionaire II* by selecting "Quit playing game," or you can play another session.

GAME STRATEGY

The following helpful hints will increase your pleasure while playing *Millionaire II*.

- Have a note pad and pencil handy as you play the game. You may want to note significant news items and stock trends on the note pad for future reference.
- At the start of a session, you may wish to go through a few weeks before making your first investment. This will allow you to select a stock with good prospects for success.
- Stock options offer you the greatest potential for profits, and for loss. Remember that a stock option decreases in value with time.
- Make sure to keep enough cash on hand to cover interest charges and possible margin calls.

NOTE

Players who are familiar with the stock market have probably recognized the fact that the 3-letter symbols *Millionaire II* uses to identify a particular stock are somewhat different than the 3-letter symbols that are actually used in the stock market. For example: Chrysler is, in reality, symbolized by C. In *Millionaire II*, we use CYR. Similar liberties were taken with other symbols in the interest of making them easier for the player to remember.