

## DESCRIPTION

This program is a collection of 18 financial analysis programs:

Mortgage	Rule of 78 Loans
Bonds	T-Bills, CD's & BA's
Options	Portfolio Hedging
Retirement Planning	Auto Lease
Compounding	Annuities
Random Numbers	IRR, MIRR & NPV
Calendar	Days Between Dates

## DATA ENTRY NOTES

You will note that all the modules have many similarities. The screen was designed to operate with a mouse. Thus you will achieve better results by selecting fields, buttons and command with your mouse rather than "tabbing". First you select the value to solve for, usually a button. Then select the first field for data entry. Enter the data and press the enter key. By pressing the enter key, you will be taken to the next logical field for data entry. If instead you want to go to another field, select it with your mouse. Then you click on "Calculate" and the unknown is solved and displayed along with other information about the investment.

Only Positive Values should be entered. Thus the amount of loan, payment, points, interest, etc. are always positive. In some cases, an option exists to select whether the value is Paid or Received. The only exceptions are for the cash flows for IRR, MIRR and NPV.

Entering Dates International date formats are supported. This program will use the date format that you selected when you installed Windows are changed the format under Windows Control Panel International Settings. You can clear the date field with a backspace. **Of important note: When you are on a date entry field, you can move your mouse to anywhere on the dark blue background and click the right mouse button. This will bring up a calendar for you to select a date. After choosing the desired month and year, double-click on the calendar date and the date is entered for you.**

Entering Values for Interest Don't enter a decimal, enter the percentage. Thus 9.432% is entered 9.432 not 0.09432.

Entering Points Points are a percentage multiplied by 100. Thus a bond that is selling at 95.23% of its face value is 95.23 points and you would enter 95.23. The maturity value of a bond is usually 100 which means that it will be redeemed for 100% of its face value.

Pressing Enter vs. Clicking After you enter a value in a field, if you press the enter key, you will be taken to the next logical field for the next entry of a value. When you arrive at a new data entry field, the value, if any, in that field is cleared. If you do not want to clear the next field, don't press the Enter key, just use the mouse to click on the next field you wish to enter a value.

Iteration Some solutions require looping until a solution is found. Examples are calculating a mortgage rate and the IRR. If the program cannot find a solution after looping 500 times, it quits trying and displays a message. This most likely will occur when you have entered inappropriate values for a solution.

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**MORTGAGE**

You select any one of 5 variables to solve and enter values for the other 4. The 5 variables are:

1. Amount of Loan
2. Interest Rate on Loan
3. Payment
4. Number of Payments
5. Balloon Payment

You simply click on the variable to solve and enter values for the other 4 variables.

Other values must be entered, they cannot be solved for. These are:

Payments Made - Select the frequency of payments from the drop down menu.

Points - These are percentage points paid for the loan. Can be zero.

Service Charge - Dollar amount of fees the bank charges. Can be zero.

The APR Rate is computed and shown. This is key to evaluating different loan terms. Thus a 8% loan with 4 points may not be as good a deal as a 9% loan with 0% points.

The Total Finance Charge is shown and includes all the interest paid in your payments, the amount paid in points and the service charge. Use this value along with the APR in evaluating different loan terms.

**Amortization** command opens up an Amortization Screen.

Date of Loan is the date you receive the loan funds and when interest begins to accrue.

Date 1st Payment is the date the first loan payment is made.

Month FY Begins is the first month in your fiscal year. This would normally be January for personal use.

Schedule Year is the year you wish to show in the amortization schedule. You can also select "All". In the case where the fiscal year spans two calendar year, this is the first year of the fiscal year.

Send To allows the schedule to be sent to screen, printer or a ASCII, comma delimited file for import into a spreadsheet.

If the date of 1st pymt is not exactly one payment period from the date of the loan, you will have either a short or long (also called "Odd") first payment period. In this case, although your periodic payment are always the same, the amount will be slightly different from the payment entered or computed from the previous mortgage screen. In the case of a short period, the payment to interest for the first period is less than normal and thus the payment to principal is greater than normal. For a long first period, the interest is more than normal. In the case where the 1st pymt is several payment periods beyond the date of the loan, there is substantial accrued interest to be paid off before any payment can be applied to the principal. US Law does not allow interest to accrue on interest.

In the loan that you set up, you selected the term of the loan. Thus a 30 year loan with monthly payments would normally have 360 payments. If the loan was obtained on June 5, 1993, the first payment would be made on July 5, 1993 and the last payment would be on June 5, 2023. However, in the case of a long first payment period where the first payment was made on Aug. 5, 1993, there would only be 359 payments if the last payment was made on June 5, 2023. If you can choose to keep the number of payments constant at 360, then the term of the loan is 361 months and the last payment is made July 5, 2023. If you choose no, then the term of the loan is 360 months with 359 payments being made.

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**Compare** command allows you to compare loan terms. The first column is a range of loan rates. The first row can be selected as a range of term of the loan, points paid or amount of loan. The values to be computed and displayed for the range of values in the first column and row can be selected as payment, total finance charge or % APR. Thus you can quickly evaluate which are the best combination of bank rate and points.

**Rounding** - See Installment Loan below.

**Example - Comparing Bank Terms**

You are buying a home and you need a \$100,000.00 loan. You go to your local bank and the loan officer offers you a loan at 10.00%, with 3 points and Service Charges of \$500.00 payable over 30 years with monthly payments. You go to another bank they offer you a loan at 10.5%, not points and Service Charges of \$250.00. Which is the best deal? Use the mortgage module and enter 100000 for the amount of loan, 10 for % Annual Rate. Select Yrs and enter 30 for the Term of Loan. Enter 3 for the Points and 500 for the Service Charges. Click on Calculate and the Loan Summary Window shows the results. The Net Loan is only 96,500. The amount for points (100,000 x .03) and fees (500) is deducted from the proceeds. Or to phrase it another way, you have to come up with \$3,500.00 to pay the points and fees to the bank. Also note the Total Finance Charge (the sum of points, fees and total amount of interest paid) along with the %APR. Make a note of these last two figures or just click on Print to print out a copy of the enter window. To compare the second offer, enter 10.5 for % Annual Rate, 0 for Points and 250 for loan fees and click on calculate. You will note that the first deal offers a lower Total Finance Charge and APR and would be the most attractive. However, you do have to pay a up front fee of \$3,500.

**Example - Amortization**

Lets assume you go with the first offer of \$100,000 at 10% over 30 yrs with 3 points and 250 in fees and monthly payments. Its time to figure your income tax and you want to know how much interest to deduct for the mortgage. You closed the deal and the money was paid out by the bank on 10/21/93. Enter this date as the Date of Loan. (Just slide your mouse cursor to anywhere on the dark blue area and click the right button. A calendar pops up. Select the month and year. Double click the left button on the desired calendar date and it is automatically entered for you.) Note that this is the date that the bank begins charging interest and may be different than when you signed the loan papers. To keep things simple, the bank likes to use the first of each month as the date when the payments are due. They tell you that the first payment is due on 12/1/93. This creates the situation of a long first payment period as described above. When the window appears for "Keep # Pymts=360", select yes. Normally, for personal tax returns, your fiscal year begins on January 1. For demo purposes, lets say the loan was made to your company and its fiscal year begins in March. Select March in the Fiscal Yr Begin window. Assuming you are preparing the FY 97-98 fiscal year tax return, select 1997 in the Schedule-Yr window. Click on Begin to begin the amortization calculations.

**INSTALLMENT LOAN - Rule of 78**

This is similar to Mortgage above. This difference is that when the rate is entered, you can select APR or Add On. The program will compute both the APR and Add On rates. Many installment loans quote the Add On Rate which is considerably smaller then the true rate paid in terms of the APR. The amortization shows the remaining balance of the loan and the rebate received if paid off. The net to payoff the note is the balance less the rebate. Note that the balloon payment on the installment loan is zero.

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#### **Rounding**

You may find that the payment calculated for a Mortgage or Installment Loan differs from other programs by a penny. The reason is that the payment is almost always contains a fraction of a penny. I have followed the rules given in the references on the last page. For mortgages, the payment is always rounded up and for installment loans, the payment is always rounded down. Thus a payment of 877.573 is 877.58 for a mortgage and 877.57 for an installment load. In the case of a mortgage, the final payment is therefore usually less than the other monthly payments. This is reflected in the Balloon Payment as a negative value.

During the creation of the amortization schedule, the interest payment is rounded, subtracted from the payment, and the remainder is the principal payment.

#### **BONDS**

This module allows you to enter either the price of the bond or the % Yield To Maturity and then calculates the other. The Simple and Effective (Compound) rates are also computed. Thus comparisons with other types of investments can be made. The total cost of the bond is also shown and includes accrued interest and fees paid to the broker. These fees are included in computing the current rate of return for the investment. The next coupon date and number of coupons is also shown.

You can select from a US Treasury, Corporate or Municipal Bond, the difference being in the number of days per month and year.

Callable If the bond can be called before maturity, you can enter the call date and price. The "Price To Call" or "Yield To Call" will be computed.

Odd First Period This refers to bonds that are issued with the first coupon payment unequal to an even 6 months. If you are analyzing a bond for a settlement date after the first coupon payment, you can ignore this area (i.e., do not check the box)

Be sure to enter the maturity value and price in points. Thus a bond with a face value of \$1,000 and selling for \$980.00 has a maturity value of 100 and a price of 98.00.

The Grid Button produces a What-If. It computes the total annualized return, including coupons and change in price of the bond, for a range of months from the date of purchase vs. a range of YTM for the new date. The Graph Button, plots the values in the Grid. Thus, you have the answer to the question: "If the YTM changes to 8% 6 months from now what is my % annualized profit" taking into account that the bond is paying interest, accrued interest and the price of the bond 6 months from now will have a different price because the current interest rates have changed and the bond is closer to maturity.

You exit the grid or graph by clicking your left mouse button.

#### **T-BILLS**

This module is similar to Bonds. The difference is that rather than entering the % YTM, you enter the % Discount. Price is entered the same way, as points. You can select to enter the life of the T-Bill as number of days or enter the actual dates of purchase and maturity. Be sure to see "Data Entry Notes" below

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regarding entering these dates.

The Price and Discount Rate are computed along with the Equivalent Bond Yield. Simple and compound rates and amount of interest paid are shown. These values take into account the fees paid.

**CERTIFICATE OF DEPOSIT**

This is similar to T-Bills above. The difference is that the quoted interest rate is simple rather than discount. Also, you can select whether 360 or 365 days per year are used in computing the quoted price or rate.

**BANKERS ACCEPTANCE**

This is essentially the same as T-Bills. Both use discount rate. However, some BA's use a 365 day year and you can select either a 360 or 365 day year.

**BLACK-SCHOLES**

This is a mathematical model for the "fair value" of an option.

There are two values that must be entered that greatly affect the result. These are the Safe Rate and Volatility.

The Safe Rate is the current rate of interest paid on money where little or no risk exists of not getting your principal back. The APR Rate on T-Bills or banks can be used. This is the APR, not the Discount or a bank rate that uses a 360 day.

The Volatility is difficult to find or compute. This program can compute the implied volatility. That is, after you have entered the other variables, you can select "Calculate" in the Volatility box and other windows open up. Here you enter the actual market price for the call option and enter an estimate for the volatility. Then click on the main "Calculate" command button and the volatility is computed using the actual market price. Using this value, you can evaluate other options for the same stock or index with different strike prices and duration. In checking the values with the Wall Street Journal, I find that the call prices are quite accurate but the put prices vary considerably. This is inherent in the mathematical model.

If the stock pays dividends, then you have to enter a value for annual dividend, the number of dividends per year and the date of the next dividend.

**ANNUITY**

This is a plain vanilla annuity mathematical model. You can select Ordinary Annuity (payments at end of period) or an Annuity Due (payments at beginning of period). Known and unknown values are similar to the Mortgage module above. The difference is that no rounding of values occurs as is done by banks for mortgages.

**COMPOUND**

This is the same as the Annuity module above except that there are no payments.

**INTERNAL RATE OF RETURN**

This computes the IRR of a series of cash flows. Be sure to enter cash flow to you (money you get) as positive values, and cash flow from you (money you paid) as negative values. You must have at least one positive value and one negative value. You then enter the number of payments per year and the program

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will calculate the Annual Percentage and Net Present Values.

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**MODIFIED INTERNAL RATE OF RETURN**

The IRR analysis can give as many solutions as there are changes of signs in the cash flows. The MIRR was designed to offset this limitation. This is done by discounting all negative cash flows to compute a present value using a "Safe Rate", i.e. T-Bill Rate. All positive values are assumed reinvested at some assumed investment rate to compute a future value. Using these assumptions and the computed present and future values, a simple compound interest problem is solved to return the rate of interest on the cash flows.

**NET PRESENT VALUE**

Enter the cash flows as described for IRR and MIRR above, however only one or more is required. Then using the annual rate of interest that you enter, the Net Present Value is computed.

Number of Periods - Enter the total number of cash flows, not including the initial cash flow

Cash Flows Are - Select the frequency of cash flows (daily, weekly, etc.)

1st Period Ends - Enter the date of the end of the first cash flow period.

Enter Cash Flows - After the above have been established, this command opens up a table for you to enter the cash flows. Just click on the desired period and enter a value.

Calculate - This will calculate the desired value based on the entered cash flows. In the case of IRR and MIRR, the simple value is the rate per cash flow period multiplied by the number of periods per year. The compounded value is the effective rate or the rate per period compounded for the number of periods per year.

Save/Read - This command will save or retrieve cash flows to or from a disc file. Once retrieved, the cash flows can be modified and re-saved. Note that only file names with the extension ".cfl" are valid file names. This is done to protect overwriting exe, com or other important files.

**RETIREMENT PAYOUT**

This module is the crown jewel! The program answers the question, "How much can I expect to receive, at retirement, in inflation adjusted dollars during my years of retirement. Your assets can be in a pension plan or they can be held as a personal portfolio. The latter case is described below. Lets say you are currently 60 years old and you have \$600,000 in investments and/or a pension plan. If you retired today, how much could you expect to receive for the rest of your life in TODAY dollars. That is, each year you increase the amount of payout for living expenses from your assets by the rate of inflation. A standard annuity pays out a fixed amount each year and that's fine for the first few years of retirement, but 15 years latter those dollars buy a lot less. This program allows for a variable payout so your buying power stays current with inflation. It also allows on to see the effect of having a lump-sum distribution from a pension plan.

Lump Sum means that value of your pension plan is paid out to you as a distribution. You then can treat these assets as your own. The disadvantage is that the earnings are no longer tax deferred and the IRS charges a rather stiff tax on the distribution.

There are 5 areas for input of data and and section called "Analysis".

**Begin Retirement**

This section asks for 2 inputs:

Assets Enter the current value of the assets, portfolio or pension plan that will generate income and can be

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used to draw from for living expenses (called payout).

Age This is the age you would like to retire.



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**Fixed Payout**

Amount This is the amount of payout from your assets that will not be adjusted for inflation. Examples might be a home mortgage or life insurance premiums.

Age Begin The age the fixed payouts begin

Age End The age the fixed payouts end

**Variable Payout**

Age Begin The age that your variable payouts (adjusted for inflation) begin

Age End The age that your variable payouts end. This would normally be your life expectancy. Use 75 or higher to be conservative.

**Inflation-Return**

% Inflation This is the amount of inflation you assume during your retirement. Who knows what that will be. Well it turns out that this is not so important and you can prove it by running the program with different rates. A conservative entry would be a high value such as 10. What is crucial to the results is the item below.

% Return Over % Inflation This is before-tax return on your investments in excess of the rate of inflation. Don't be unrealistic here. Enter a lower value to be conservative. If you put all your investments into T-Bills, you could be reasonably assured they would just about equal the rate of inflation. Thus you would enter 0 for this entry.

**% Tax**

This area is only important if you are considering a lump sum payout of your pension plan or your assets are not in a tax deferred pension plan.

On Income Enter a value for the % tax you expect to pay on your income. This is not the same as the IRS tax rate since the actual % tax you pay on your total taxable income and wages is reduced by deductions, etc.

On Lump Enter the IRS tax rate on lump sum distributions including any special tax penalties.

The last entry is for the Age in the "Analysis Section". Enter an age to see the results for any year during your retirement. Then press the "Calculate" button.

**Analysis**

The value displayed in the Result frame, is the annual payout in dollars at age of retirement. This value is increased each year thereafter by the rate of inflation which produces a constant purchasing power. This amount is in addition to the Fixed Payout and is an amount before taxes and for no lump sum payout.

The amortization command produces a schedule for each year from beginning of retirement up to the maximum of the ending age of fixed or variable payout. You can select either no lump sum or a lump sum payout to compare the two. The amounts shown are fixed, variable, total, total after-tax payouts. Also, the income generated each year off the assets and the end-of-year value of the assets is shown.

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These values are computed as follows. The initial variable payout is compounded for the number of years since retirement at the rate of inflation and added to the fixed payout to obtain the total payout. This sum is then subtracted from the value of the assets at the beginning of the year. This remainder is then multiplied by the rate of return to produce the income for the year. The total payout is subtracted from and the income is added to the value of the assets at the beginning of the year to obtain the end of the year value for the assets. This value is then used for the beginning of the year assets for the next year and so on. If you want to see for yourself the effect of values assumed for inflation and return, try entering different values for inflation but keep the value of the return over inflation the same. You will see for yourself that there is not a substantial difference unless you have a large fixed payout relative to the variable payout.

#### **Important Note**

Most people have a combination of personal and pension assets. Run the program for each and add the results. This program was designed for a qualified pension plan where the income is tax-deferred. An IRA probably falls into the same category. **To use the program for a personal (non tax-deferred) portfolio** a couple of "tricks" are necessary. Use current value of your portfolio as "Assets" in the Begin Retirement input. In the % Tax input, enter 0 (zero) for the value of "On Lump". Enter the other values as describe above. In the analysis section, use the "YES" column for your answers. What we are doing is treating your current personal portfolio as a being in a pension plan, then taking a lump sum distribution but with no lump sum distribution tax. This then places the assets into a non tax-deferred category.

#### **Assumptions**

The program always takes the conservative side of choices. For each year, the income from the assets is assumed to be earned at the end of the year and the payout to occur at the beginning of the year. This has the effect less earnings than actually occur. The rates of inflation and earnings are assumed constant. This is not as bad as it seems. What is important is the difference of the two and this can be assumed reasonably constant with conservative investments. Prove it to yourself by trying different rates of inflation and keeping the "% Return Over % Inflation" constant. The program also assumes you have the option in a pension plan to receive a variable distribution each year. If this is not true, then use zero as the amount in the Variable Payout Amount entry and use different amounts in the Fixed Payout Amount entry until your Asset Value in the Analysis section becomes zero.

#### **Example:**

You are 55 years old and have \$1,000,000 in assets that can be invested to produce income. You still have a mortgage on your home and a child in college. Enter 1000000 for "Begin Retirement Assets - Assets and 55 for Age" These "fixed" payouts amount to \$40,000 per year and will continue through your age 59 or until you reach 60. Thuse enter 40000 for "Fixed Payout Per Year - Amount, 55 for Age Begins and 59 for Age Ends" Your wife will continue to work and therefore you don't need to start your variable payouts until your age of 57. You want these variable payouts to continue for your life expectancy and you select 80 as a go ripe old age. Thus enter 57 for "Variable Payout - Begins and 80 for Ends". You assume an inflation of 5% and a rate of return on your investments of 2% over the inflation rate. Thus enter 5 for the "Inflation-Return Per Year - Inflation and 2 for Rtn Over Infl". The values for Tax Rates Per Year need be entered only if you are considering a Lump Sum Distribution or if you want to see your after tax income in the amortization table. You could use 25 for "Tax Rates Per Year - On Income and 35 for On Lump". Click on Calculate and the result is 43,945.35 as the amount in age 55 dollars that will be paid out annually beginning at age 57 through age 80 and increased each year by the rate of inflation.

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#### **AUTO LEASE**

This module approaches a lease from the dealers position however, the numbers produced are of valuable to the customers position. There are 4 main variables, in addition to the term of the lease that are involved in a lease. Any of these 4 can be selected as the unknown and solved for.

**Cap Cost** - This is the dealers captalization cost and represents his upfront money or investment. It includes money that he must lay out to provide you the auto and is reduced by money that you pay up front.

Selling Price - is the price that he would otherwise sell the car for if not leased.

Trade/Down - is the trade-in and downpayment that you provide and this serves to reduce the dealers cap cost. Enter a positive value, the program subtracts the value for you.

Taxes - These are up-front Federal Luxury and State Taxes that are paid and not otherwise included in your initial payment.

Other- This can be a positive (increases Cap Cost) or negative (decreases the Cap Cost) entered value. Examples would be the dealers acquisition fee and mechanical breakdown protection.

**Residual** - This is simply the estimated market value of the auto at the end of the lease. It is normally computed by applying a percentage to the Manufactures Suggested Retail Price. If you don't know the MSRP, then simply enter the amount for residual as the MSRP and use 100%

**Rate** - The dealer usually uses the "Money Factor" or "Rate Factor" but often advertises the lease as %APR. A simple conversion is  $\text{Rate Factor} = \%APR/24$ . Select the option for either and enter the value.

**Monthly Payment** - This is your monthly payment for the lease and does not include any State sales tax on the payment. Your initial payment could be higher because of a security deposit, last month in advance license and registration fees, etc.

Comparing lease terms with those of a bank loan is more complicated than just comparing the APR. Some dealers advertise 0% APR. How can they lease you a car without any interest charge? That is where the calculated field "Cap Cost", and indirectly "Selling Price", is handy. You may find that you pay no interest but the monthly payments are high because your paying a high selling price.

#### **DAYS BETWEEN DATES**

This module will compute a multitude of values for entered dates and many values for the difference between the two dates.

#### **PORTFOLIO HEDGE**

This module evaluates using an Index Put Option (like the S&P 100 Index) to hedge a portfolio of stocks against a drop in the stock market. It can be used for any type of investment where an Index Put Option is available such as currency, precious metals, etc.

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You enter the current value of your stock portfolio and the beta. The beta is a measure of the stock volatility relative to the index. If you expect your stocks to move by the same % as the index, the beta is 1. If you don't understand this, use 1 for the beta. The number of options/contract is 100 for the S&P100, S&P500. For currency and precious metals, the value appropriate for the index will be needed. Enter the current value for the index, the strike price and the price of the put option and then 'Calculate'. The number of contracts and the total cost are listed for a "neutral" hedge. That is, the number of contracts such that if the index falls below the strike price, the increase in value of your put option, will essentially offset the decrease in value of your stocks. The break-even price is the price the index must increase to for your portfolio to increase in value enough to offset the cost of the option. The % Move is the percent of the increase compared to the entered value of the index. The maximum loss is the most you can lose on the combination of the portfolio and the option.

By clicking on "Plot", you can see a graphical display of the profit vs. index price for the portfolio, option and the combination of the two. Note that only the intrinsic values are used in the calculations.. the time value is assumed to be zero.

#### **RANDOM NUMBERS**

You enter the number of random numbers to generate and the upper and lower limits of the to generate. The program then generates a series of random numbers.

#### **CALENDAR**

This displays a calendar where you can select the month and year to be displayed. Just double click on a date to exit.

## **REGISTRATION**

The unregistered version is offered for evaluation. If you want to use more than 30 days, you are required to register to program. This is done by clicking on the "Order" button on the "About" screen and filling out and printing the form. If you wish to pay with Master Card or Visa, you can fill out this section of the form and FAX the printed form to the number listed below. This will expedite your registration

WinFin is constantly being improved, modules added and of course, bugs fixed. With your registration, you will receive a disc with the latest version of WinFin.Exe and all the other necessary files.

Your registration code can be used on future versions of this program that you may obtain from BBS's, so there is no charge to upgrade other than the cost of downloading or shipping and handling charges if ordered directly from Gjetass, Inc.

Feel free (I encourage you) to pass this program along to your friends or other BBS's but please keep your registration code confidential.

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**SUPPORT**

If you have any questions, please call me at the number below. To keep the cost of the program low, long distance calls cannot be returned. Thank you for giving this program a try.

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If for any reason you are unsatisfied with the program within 30 days of receiving a registered version, simply return the disc with your reason and your registration fee will be refunded.

Registered users of WinFin have lifetime (yours or mine, which ever is less) free telephone support at the above telephone number.

This program is produced by a member of the Association of Shareware Professionals (ASP). ASP wants to make sure that the shareware principle works for you. If you are unable to resolve a shareware-related problem with an ASP member by contacting the member directly, ASP may be able to help. The ASP Ombudsman can help you resolve a dispute or problem with an ASP member, but does not provide technical support for members' products.

Please write to the ASP Ombudsman at 545 Grover Road, Muskegon, MI 49442-9427 USA, FAX 616-788-2765 or send a CompuServe message via CompuServe Mail to ASP Ombudsman 70007,3536.

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