Hermes II
Version 1.0
Macintosh™ Bulletin Board System

Computer Classifieds
12819 SE 38th #101
Bellevue, WA 98006

206-643-2316 (voice)
206-643-7830 (fax)
206-643-2874 (BBS)

Current Programmer - Robert Rebbun

Documentation by Lloyd Woodall

Primary Program by Frank Price, III

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Registration Information

Hermes II is distributed as **keyware**. Keyware is a system where you, the user, can use Hermes II for 30 days without registering the application and entering your unique serial number. After this trial period, if you want to use it, you must send in the registration fee. When you register, you will receive access to a serial number that allows you to use the product further. If you attempt to use the product beyond thirty days without a serial number, the software will not function. Your thirty days starts the first time you boot the program. There are several ways to register. The first is to simply log on to Olympus, the Hermes II Support BBS, and be shown how to register with your MasterCard or Visa. MasterCard and Visa purchases are normally processed within 36 hours after entry. You may also send a money order or cashier's check. They are processed immediately. The last option is to send a personal check, but allow up to 10 days for this to clear after receipt. You will be notified on the support BBS that we have received your personal check and that it now has to clear the bank.   Your serial number must be obtained from the Hermes Support BBS.

The keyware fee is $95.00 for a license to operate Hermes II. This license is sold to the original purchaser and is not transferrable. The program will cease to allow users to log on after 30 days without a serial number from Computer Classifieds.
To register, call Olympus, the Hermes II support BBS and register online with your Visa or Mastercard, or send a money order/cashier's check/personal check to:

Computer Classifieds.
12819 SE 38th #101
Bellevue, WA 98006

If your check is not drawn in US Funds on a US Bank, it can't be accepted. Foreign banks will be able to produce such checks upon request.

You should print the form at the end of this manual and send it in with your registration fee unless you register on Olympus, the Hermes II Support BBS. You can reach Olympus at the following numbers:

(206) 643-2874   1200, 2400, 16.8k HST, V.32, V.32bis.
(206) 644-4169   1200, 2400, PEP, Super PEP, V.32, V.32bis.

It is wise to get on the support BBS listed above. It provides an invaluable source of information exchange and Hermes II support. There are hundreds of users there exchanging advice on how to get the most out of Hermes II. All sysops will benefit from this BBS, and you can always download latest version there. Unregistered users may establish an account on this BBS for 30 days. If they do not register by that time, their account will be deleted. Unregistered accounts have restricted access, but may download the latest versions for as long as their account exists. Access to serial numbers is managed through the support BBS; although, full access there is not related to registration and is not officially part of registration.   As a registered user you will be able to get your serial number there.

Obviously, every customer has a modem, so there should be no problem in obtaining the latest version from Olympus. Hermes II is updated too often to send out new versions by mail. However, if you are a foreign customer or have some other special case where you are unable to log on to the support BBS, we will make exceptions. If you send a formatted disk with a self addressed stamped envelope, it will be returned with the latest version of the program and manual. You must either register simultaneously or be registered to do this. Serial numbers cannot be sent through the mail. Without exception, they must be obtained on the support BBS.

Hardware Requirements

Hermes II will run on the Macintosh Plus and above. You will need a modem that is Hayes AT-command set compatible, and, of course, a phone line. Modem drivers are provided for standard 2400 baud modems, as well as a number of high speed modems. If you have a modem that is incompatible with all of these drivers, please contact the support board. If your modem is at all common, you will probably be able to download a driver from the support BBS. If not, see Appendix B later in this manual on Writing Modem Drivers. A special modem driver dialog in Hermes II makes writing your own driver a comparatively easy process. It is imperative that a reliable, high-quality modem is used in BBS operations. Problem with "off brand" or poor quality modems includes the lack of available modem drivers, degraded connections and loss of carrier. It has been our experience that poor modems cause the greatest problem area in setting up and operating a BBS. Computer Classifieds sells USR Sportster v.32bis (14400 baud) modems at attractive prices. These modems will provide reliable service with Hermes II.

Standard Macintosh modem cables are not designed for BBS use. You will need a custom Hermes II BBS cable in order for the BBS to both detect carrier loss and manage flow control. BBS operations are different from just calling with communications software in that the BBS must not only handle flow control, but ALSO monitor carrier state to detect whether the phone line (the caller) is still connected. This is required so that if a user is disconnected without properly logging off, your system will recognize this and reset. Without this custom Hermes II BBS cable, your BBS will not reset properly if a user is disconnected without logging off the BBS. Users disconnected while NOT transferring will eventually be logged off by the inactivity timeout and the node will reset, but if the user was transferring, your BBS may never reset until done manually. Custom Hermes II BBS cables can be ordered from Computer Classifieds for $20 plus $4 shipping. See Appendix C for details.

Some Macintosh models use a custom Apple chip (the Apple Combo Chip) for serial communication functions. The chip combines the functions of the 8550 (SCC) and the 53C80/53C96 (SCSI) into a single chip. This chip doesn't have GPI capabilities, so the computers that use it have no GPI functionality.

The Macintosh models affected are:

• Classic, Classic II, Color Classic
• Macintosh LC, LC II, LC III,
• Performa 200, 400, 405, 430, 450, 600
• Macintosh IIsi
• Macintosh IIvx, IIvi
The Mac Plus and older also do not GPI capability as this was never designed into these older computers.

You cannot successfully use Cable ID#3 and RTS/CTS flow control with these computers and Hermes II. You should use Cable ID#1 and XON/XOFF flow control if you use these models. (You can use RTS/CTS flow control with these computers in non-BBS operations) however.

To use RTS/CTS flow control you must use Cable ID#3. This requires GPI (pin 7) support. Operational tests have shown that XON/XOFF flow control is as fast and reliable as RTS/CTS flow control. In addition, Cable ID#1 that Hermes II requires with XON/XOFF (or no flow control) allows for a much quicker reset of the BBS when a user logs off. This is preferred with multi-line systems.

All users should generally obtain the following cable. It is compatible with all modems:

CABLE ID #1: (for all computers and used with XON/XOFF flow control)

```
Mac MINI DIN-8--------> RS-232 DB-25
               1--------> 20
               2--------> 8
               3--------> 2
               4--------> 7
               5--------> 3
               6--------> not connected
               6--------> not connected
               8--------> 7
```

Users with Telebit T2000 and T2500 modems may obtain the following cable that uses some of the special features of those modems:

CABLE ID #2: (for Telebit T2000 & T2500 modems and used with XON/XOFF flow control)

```
Mac MINI DIN-8--------> RS-232 DB-25

               1--------> 20, and 4
               2--------> 5
               3--------> 2
               4--------> 7
               5--------> 3
               6--------> not connected
               6--------> not connected
               8--------> 7
```

The following cable is for those users who want to use the hardware handshake option in Hermes II. Only use this option if you are sure of what you are doing. For more information on hardware handshake, see the Node Prefs section. Remember that this cable only works on some Macintosh models. The Macintosh Plus, Classic, and some other models are not compatible with this cable. If you are running System 7, you can determine whether your computer supports this feature by looking in Node Prefs at the "Hardware Handshake" checkbox. If it is dimmed, your computer does not support this.

CABLE ID #3: (for computers with GPI support and used with RTS/CTS flow control)

```
Mac MINI DIN-8--------> RS-232 DB-25
               1--------> 20, and 4
               2--------> 5
               3--------> 2
               4--------> 7
               5--------> 3
               6--------> not connected
               7--------> 8
               8--------> 7
```

Hardware for running more than two nodes

The standard configuration of all current Macintosh computers can handle only two nodes. One can be run from the modem port and one from the printer port. This causes problems for those who also wish to use AppleTalk.   If you use AppleTalk you will not be able to use the printer port for Hermes II. You will need more serial ports to run more nodes. Several options are available for this. For Macs with an ADB port, you can get the Teleport modem from Global Village as a third port at 2400 baud. The only nubus multiport serial card confirmed to work properly with Hermes II right now is the Creative Solutions Hurdler card. These Nubus cards are available from Computer Classifieds in both 2 and 4 port versions. The current cost is $330 plus $20 FedEx 2nd day air shipping/handling (US) for the 4 port card. A SCSI-based multiport serial card is under development by CSI and should be available soon.

There is also a card available from Apple Computer called the Apple Serial NB card. This card has not been tested with Hermes II, but should theoretically work based on specifications reviewed by the author. I've also heard about other cards, but I either don't know much about them or am sure their cards don't work. Namely DigiCom, Inc., Taniwha, Inc., Applied Engineering, and XECOM, Inc. It is important to remember that many cards may appear to function, but it is imperative that the card is fast and has adequate buffering so that it can handle full throughput on all ports at the same time. So far, only the CSI card has done that, and their support and updates of the card have been exemplary.

Software Requirements

Hermes II must be run on System 6.0.4 or newer. It also requires that you install the Macintosh Communications Toolbox if you don't use System 7. You can obtain that file from the support board, APDA, and most online services such as CompuServe, America Online, GEnie or Prodigy. Hermes II works extremely well under Multifinder™, and should be given 2000K or more memory depending on the number of nodes you want to run. If your file directories allow more than 200 - 300 files each, you should also give Hermes II more memory. Hermes II loads in the entire directory when doing a search or other directory command, so memory must be available to do this. Also, you must give Hermes II additional memory if you have external applications, as memory for their operation is taken from Hermes II. If you want to set up an Appletalk (or Ethernet) node, you will need to install the Appletalk ADSP Tool (an Extension) on both the BBS and the other computer. The other computer's communication application must also support ADSP.

Setup Menu (New BBS Setup)

There are a number of things you must do to get Hermes II ready to take calls and this will require some planning and thought. Remember that everything that can be done from an outside call can also be done at the keyboard so a bit of experimenting can save you some aggravation later. Whatever you design into your system be sure to test it by logging on from the keyboard first to make sure you didn't overlook anything.

Starting up a new BBS is not as simple as just hooking up a modem and running the application. It requires some planning and much thought. You will have to consider what your BBS will be used for and how you will want to set up your message bases and your File Transfer sections, each of which will have various names and access levels. If you have never run a BBS before then you may want to start by setting up a simple BBS and add to it after you understand all its features and functions.

A1. Double-click the Hermes II application.
The first thing you will encounter is a beep and a dialog box asking you to show where the "System Prefs" file is located.

A2. Set the directory where you want to keep all the files that Hermes II uses.
You would normally set this to the Hermes II Files folder. You can set them anywhere you want, such as a RAM disk. You can reset the location of the System Prefs file by holding the Command key during Hermes II launch. You can reset the location of the Messages folder by holding down the Option key during Hermes II launch. In addition to resetting the location at startup, you can set the path via the "Set Path" buttons in System Preferences.

A3. Click on "New".
Hermes II will then open a large main window. You will find a message in the main window, which will say "Waiting...". Do not attempt to log onto the board or use any of the various menu commands until you go through the following setup procedures. Attempting to do so will result only in failure.

A4. Pull down the "Setup" menu and select "Number Of Nodes".
That will bring up a dialog box to let you enter a number. If you're not using a special card with a Mac II or up, then you can have as many as 3 nodes. You can run a node with a phone line on the modem port, another on the printer port, and one called a "local node" that has no port. You can also have up an Appletalk node using ADSP AppleTalk connections through the printer port. The local node is for the local keyboard and you would use it to log on in local mode while other users are online. Hermes II is capable of having up to 10 nodes with nubus and SCSI-based multiport serial cards .

A5. Enter the total number of nodes you plan to have now.
Generally you will select at least two. Allow one "local" node for you to use when logging on to the BBS from the keyboard.

A6. Press OK.

A7. Quit Hermes II.

A8. Complete all the remaining menus on the "Setup" menu as shown below.
You should normally accomplish the items in the order as explained here in the documentation.

Setup

Register Hermes...
Number Of Nodes

Feedback
Security Levels
New User Setup
System Preferences

Text
Menus ▶

Transfers
Messages
G-Files
Node Preferences ⌘P

Node Preferences

Node 1

Modem Port
Printer Port
AppleTalk
None

Max Baud: 2400 ▼
Min Baud: 1200 ▼

Name: Hayes Compatible 2400

Modem Driver:
USR Courier 2400e
Telebit T2500
Hayes Ultra 96
Telebit T2000
Telebit T3000
Telebit Worldblazer
Suprah AX V.32bis
ZoomVFX V.32bis
MicroCom QX/4232bis
USR Sportster
USRobotics HST/DS
Generic 2400
PM14400FXSA v.32bis

Start: 00:00
End: 00:00
Timeout: 4
Buffer: 200
Answer: 1
Sec Level: 0
Access Letter:

Misc. Setup:
☒ Off Hook in Local
☒ Change Speed
☒ DTR Hangup
☐ Hardware Handshake
☐ Allow Unknown
☐ SysOp Node

Setup for 2400 baud modems

Carrier Detect:
◉ CTS Pin 5
○ DCD Pin 7/Chip
○ DCD Pin 7/Driver

New Delete Export OK

Node 1

Modem Port

Printer Port

AppleTalk

None

Max Baud: [38400 ▼]

Min Baud: [1200 ▼]

Modem Driver:

```
USR Courier 2400e
Telebit T2500
Hayes Ultra 96
Telebit T2000
Telebit T3000
Telebit Worldblazer
SupraFAX V.32bis
ZoomVFX V.32bis
MicroCom QX/4232bis
USR Sportster
USRobotics HST/DS
Generic 2400
PM14400FXSA v.32bis
```

[New] [Delete]

[Export]

Name: [USR Sportster 14,400]

Start: 00:00

End: 00:00

Timeout: 4

Buffer: 200

Answer: 1

Sec Level: 0

Access Letter: [ ]

[OK]

Misc. Setup:

☒ Off Hook in Local
☐ Change Speed
☒ DTR Hangup
☐ Hardware Handshake
☐ Allow Crashmail
☐ SysOp Node

Carrier Detect:

◉ CTS Pin 5
○ DCD Pin 7/Chip
○ DCD Pin 7/Driver

Setup for high speed modem with XON/XOFF flow control

Node 1

Modem Port

Printer Port

AppleTalk

None

Max Baud: [38400 ▼]

Min Baud: [1200 ▼]

Modem Driver:

```
USR Courier 2400e
Telebit T2500
Hayes Ultra 96
Telebit T2000
Telebit T3000
Telebit Worldblazer
SupraFAX V.32bis
ZoomVFX V.32bis
MicroCom QX/4232bis
USR Sportster
USRobotics HST/DS
Generic 2400
PM14400FXSA v.32bis
```

[New] [Delete]

[Export]

Name: [USR Dual Standard]

Start: 00:00

End: 00:00

Timeout: 4

Buffer: 200

Answer: 1

Sec Level: 0

Access Letter: [ ]

[OK]

Misc. Setup:

☒ Off Hook in Local
☐ Change Speed
☐ DTR Hangup
☒ Hardware Handshake
☐ Allow Crashmail
☐ SysOp Node

Carrier Detect:

○ CTS Pin 5
◉ DCD Pin 7/Chip
○ DCD Pin 7/Driver

Setup for high speed modem with RTS/CTS flow control

B1. Launch Hermes II.
After restarting, you will first want to set the "Node Prefs" for each node.

B2. Pull down the "Sysop" Menu and select "Node 1" from the "Views" Sub Menu.
If you have an extended keyboard the function keys switch to the node number of the function key pressed (pressing Command-Option with a number will also select that node). Be sure to set Node Prefs for each node

B3. Pull down the "Setup" menu and select "Node Preferences".
You can select Node Prefs by using the mouse to select Node Prefs under the Setup menu or by selecting Command P. You will be presented with the Node Prefs dialog to set various settings. Set these options according to the CPU, modem and custom BBS cable being used.

B4. Select the serial port you want for this node.
Select the port your modem is connected to in the upper left. Note: If you are setting up a node for use only on local keyboard (null node) be sure to select "None" for the port. If you are running with a multiport nubus card, this box will also bring up any devices registered with the Macintosh Communications Toolbox. The AppleTalk selection allows you to designate this port as an AppleTalk ADSP connection end. Any ADSP terminal may then connect to it as if it were using a modem or direct cable. The most common ADSP connection is in the Macintosh communications toolbox called the "AppleTalk ADSP Tool."

B5. Select the Modem Driver.
Select the modem you are using. If you are using any Hayes Compatible 2400 or 1200 baud modem then select the Generic 2400 driver. Users of high speed modems must select the specific modem driver for that brand and type modem. If you can't find the required modem driver here, call the support BBS. There is a directory there which contains many other modem drivers that unregistered users may access. If you can't find a modem driver there, you can create your own here by clicking New. See Appendix B for information on making a modem driver. The process is very straightforward. If you get a modem driver from the support BBS, you will need to import the driver into Hermes II. To do this when running under System 7, just drop the file over the Hermes II application icon at any time and Hermes II will run and import the driver into its built-in list.   Also, you can delete any excess or test drivers you may not need by clicking Delete. The Export button allows you to export a modem driver to a file so that you can distribute it to places like the support BBS. When running System 6, you will need to use ResEdit to first copy the driver resource. Using ResEdit, open the Hermes II application and double click the MoDr resource. Then select paste to insert the new modem driver into the list.

B6. Set the Max Baud.
Use this popup menu to select the highest baud rate that your modem is capable of running. This will also be the speed at which your modem will be initialized. If you do not have the Change Speed box checked, then this is the speed at which your computer and modem will transfer data between them.

B7. Set the Min Baud.
Use this popup menu to select the minimum baud rate you will allow. Calls at any baud rate less than what you select here will not be allowed to log onto the BBS.

B8. Name the Node
You can put any information here that you wish. The information will show up when the node is waiting for a call. When the node is in use, the node window will show the node number and the name of the user. You may want to put the phone number of this node or the modem type.

B9. Either check or don't check "Off Hook In Local".
If checked, Hermes II will take the selected node's phone line off hook when you log onto the board from the local keyboard.

B10. Either check or don't check "Change Speed".
When this box is checked, Hermes II will change it's DTE-DCD (computer - modem) port rate to the rate returned as the connection speed whenever a connection is made. Otherwise, that returned rate will be ignored and Hermes II will always set the DTE-DCD port rate to the max baud rate set in Node Prefs. Hermes II will automatically adjust your modem's settings for whatever option you select. For 2400 baud or slower modems you should normally check this box. For high speed modems with flow control you can normally get higher throughput if you do not check this box. The symptom that you should check this box is that all users calling in at baud rates below the maximum baud rate will not be able to log on.

B11. Either check or don't check "DTR Hangup".   Read all this explanation!
This box should be checked only if you have a modem capable of hanging up by switching the DTR (Data Terminal Ready) signal (most have this capability). **The Hermes II custom BBS Cable ID#1 is required.** (You can order one of these cables from Computer Classifieds. See the Hardware Appendix here or you can order online from Olympus, the Hermes II Support BBS). However, if you use hardware handshake flow control as described below this feature cannot be used and you should not check this box. Without the custom BBS cable and the DTR box checked, if a user hangs up rather than logging off the BBS your BBS will not recognize that the connection has been broken and they will not be logged off. Using DTR to hangup is much faster than the normal escaping method (hang-up) that Hermes II uses if DTR hangup is turned off.

B12. Either check or don't check "Hardware Handshake". Read all this explanation!
The hardware handshake option in Hermes II is very special. It takes advantage of certain hardware features inside the Macintosh™ to allow the use of RTS/CTS flow control (hardware handshake) that theoretically may be slightly faster and more reliable than XON/XOFF (software) flow control (which is always used by default if this option is turned off). **To use this feature you must use Hermes II Cable ID #3.** (You can order one of these cables from Computer Classifieds. See the Hardware Appendix here or you can order online from Olympus, the Hermes II Support BBS).Make sure the DTR Hangup box is unchecked as that feature conflicts with the hardware handshake feature. Your modem init string will automatically be modified according to the modem driver you have selected. Remember that there is no need to use this feature, and it only provides minimal speed increases. Also, it only works with some models of the Macintosh. If the DCD Pin 7/Chip button is dimmed, your Mac does not support this feature.

B13. Either check or uncheck "Allow Crashmail".
If this option is not dimmed, you have obviously already turned on Tabby Aware in System Prefs. When checked, crashmail calls will be allowed to use this node to call for network mail. Otherwise, crashmail calls on this node will be ignored.

B14. Either check or uncheck "Sysop Node".
If the node is used only by the Sysop and you do not want the node' s activity to be included in the BBS Usage Record, then check this box.

B15. Select the appropriate Carrier Detect method.
To use this feature you must use one of the custom Hermes II BBS Cables. The three options listed here all do the same thing; they specify a specific hardware line in your cable to use in determining whether a user is logged on or not. The first option "CTS Pin 5" is the standard method. If you don't know what these settings mean, you should check this. It is most likely the correct choice for you. The only reason to check one of the DCD options is if you have Hermes II cable ID #3 listed at the beginning of the manual for hardware handshake. If you do have this cable and are using hardware handshaking, you should choose according to the following guidelines. If you are running the node in question from the modem or printer port, choose "DCD Pin 7/Chip". If you are using a nubus card for more nodes, choose "DCD Pin 7/Driver". Certain Macintosh models do not support the DCD Chip option. If it is not available on your computer this option will be dimmed.

B16. Set the Start Time and End Time.
These settings allow you to have this node start up and shut down at the preset times. For instance, you may have node 1 active 24 hours a day but have node 2 active only between 8 PM and 6 AM. Hermes II will tell the modem on node 2 to not answer the phone during the 'down' hours. Users will be told when they log on that the node is going down at a certain time if their allotted time will overlap the time to shut down. Their time will be adjusted accordingly and they will not be logged off in the middle of a transfer or posting a message. Clicking on the arrows changes the hour value and clicking with the Option key depressed changes the minutes value.

B17. Set the Inactivity Timeout.
This sets the number of minutes of inactivity allowed before a user is logged off. The user will be given an "inactivity logoff alert" when half of this time has elapsed. Clicking on the arrows changes the value by ten and clicking with the Option key depressed changes the value by one.

B18. Set the Buffer Size.
The number in this box represents how many lines Hermes II will reserve in memory for your scrollback buffer for the selected node. 240 lines is about 10 BBS pages. 400 is maximum, and 24 is minimum. A larger buffer requires more memory, so it may be best to set this to set this to 200 or less. Clicking on the arrows changes the value by ten and clicking with the Option key depressed changes the value by one.

B19. Set the Ring Number on which to answer.
Normally this should be set to 1 so that Hermes II will answer on the first ring. If you have a caller ID device hooked up to this line, setting the ring number greater than 1 will delay the answering of the phone so that the caller ID information can be collected. To use this your phone system must support caller ID and you must obtain the caller ID hardware to display this information.

B20. Set the Minimum Security Level required for this Node.
If you want all users to have access to this node, leave the SL setting at zero. If you do want to restrict access to this node, set the minimum security level required to access this node. If you have set a minimum security level, only users with this SL or higher will be able to call this node. Clicking on the arrows changes the value by ten and clicking with the Option key depressed changes the value by one. If you set both a minimum SL and enter an Access Letter, then users must have both the required SL and Access Letter to call this node.

B21. Set the Access Letter required for this Node.
If you want all users to have access to this node, leave the Access Letter box blank. If you do want to restrict access to this node, enter the Access Letter required for this node. If an Access Letter is set, only users with this Access Letter will be allowed to call this node. If you set both a minimum SL and enter an Access Letter, then users must have both the required SL and Access Letter to call this node.

B22. Click the "OK" Box.
This saves the settings.

System Preferences

C1 Pull down the "Setup" menu and select "System Preferences".
You will get the following dialog in which you must set up many operating parameters.

C2. Type in a new Sysop password.
This is a special password that will be required in addition to your normal password when you log on the system from remote. It's an additional security feature because you have sysop authority. When you log on from remote, you will be asked for the Sysop Password with the "SY:" prompt. A cosysop will also be asked for this if they attempt to use the Remote User Editor.

C3. Set the NUP (New User Password) if you want a "Closed" BBS.
If you have checked the "Closed" box, new users will be prompted for this New User Password before they will be allowed on the system. If you don't check the Closed box, then the NUP doesn't need to be set.

C4. Set Total logons.
This should be set to 0 initially and will be automatically updated by the system, keeping a record of how many calls the system has taken.

C5. Set Sysop Available Hours.
Hermes II uses this to show users when the sysop is available for chat. It's in 24 hour format. Clicking on the arrows changes the hours and clicking with the Option key depressed will change the minutes. If a user pages you for chat during the time you are not available he will automatically be allowed to send Feedback to you instead.

C6. Set the Font Size Desired.
Most BBSs will likely prefer the 9 point font, however, some people with larger screens may prefer the larger size.

C7. Set the Usage Record Display Mode.
If you only want the system to record a single line total for all nodes (except nodes checked as "Sysop" nodes) then check the "Totals Only" button. However, if you have multiple nodes you can select the "Each Node" mode and Hermes II will record the usage totals on a "per node" basis. This mode is desired as it allows the sysop to quickly evaluate each node's performance and use.

```
## 	 Date 	 Day Calls Active EMail Posts Uploads Downlds %Act T/User
-- -------- --- ----- ------ ----- ----- ------- ------- ---- ------
T  08/28/93 Sat  138  1127   11    43   1/0    219/5   19%    8
-------------------------------------------------------------------------
```

```
## 	 Date 	 Day Calls Active EMail Posts Uploads Downlds %Act T/User
-- -------- --- ----- ------ ----- ----- ------- ------- ---- ------
1  08/28/93 Sat   74   606    6    27   0/0    120/2   42%    8
2  08/28/93 Sat   40   307    3     8   1/0     61/1   21%    7
3  08/28/93 Sat   17   117    1     7   0/0     14/0    8%    6
4  08/28/93 Sat    7    97    1     1   0/0     24/2    6%   13
T  08/28/93 Sat  138  1127   11    43   1/0    219/5   19%    8
-------------------------------------------------------------------------
```

```
##        - The node number (or Total) the data shows
Date      - The date
Day       - The day of the week
Calls     - Number of calls to this node
Active    - Minutes this node was in use
EMail     - Number of E-Mail sent from this node
Posts     - Number of posts made from this node
Uploads   - Number of successful/unsuccessful uploads to this node
Downlds   - Number of successful/unsuccessful downloads from this node
%Act      - Percentage of time this node was active (based on 24 hrs.  or 1440 minutes being 100%)
T/User    - Average time online per user for this node
```

C8. Set Default Foreground and Background Colors.
This allows you to select the colors for your screen. Simply click on your choice. Black and White Macs will see all but one of these as black. Just select one white and one black if this is the case. Many people prefer a black background and a white foreground for best display of ANSI graphics.

C9. Set Post Compensation Multiplier.
This allows you to grant time compensation for posting a message. When a post is completed, the time spent making the post is multiplied by the multiplier to give additional time online for the current call. Setting it to 1.0 will compensate the user for exactly the amount of time he spent making the post. Setting this to 2.0 would reward a user by giving him double time spent on the post.   Clicking on the arrows changes the value by one and clicking with the Option key depressed changes the value by one tenth.

C10. Set U/L Compensation Multiplier.
This allows you to grant time compensation for uploading a file. When an upload is completed, the time spent on the upload is multiplied by the multiplier to give additional time online for the current call. Setting it to 1.0 will compensate the user for exactly the amount of time he spent making the upload. Setting this to 2.0 would reward a user by giving him double time spent on the upload.   Clicking on the arrows changes the value by one and clicking with the Option key depressed changes the value by one tenth.

C11. Set Protocol Time.
This controls how much time Hermes II gives to the external protocol (i.e. Z-Modem) during a file transfer and is directly related to both transfer and message speed. A good value for this is 15 for single-node systems. On a two node system, 7-10 would be a good range to start with. The higher the number, the greater the percentage of CPU time will be devoted to faster transfers at the expense of message speed, posting, etc. Setting the protocol time anything less than 2 will likely make your file transfers unbearably slow at almost any baud rate. The maximum value for this should be about 30. Setting it that high will make your computer next to unusable for anything else during a file transfer. With a faster CPU you should be able to set a lower number and still have acceptable transfer speed. With additional nodes you should set a lower number or your message speed will be very slow if all nodes except one or two are engaged in file transfers.   Clicking on the arrows changes the value by ten and clicking with the Option key depressed changes the value by one.

C12. Set Days to save logs.
Set the number of days of activity logs that Hermes II will keep before deleting them. The minimum is 2 days, and the maximum is 99 days. These logs will be kept in the "Logs" folder and can be accessed by selecting "Logs" under the Sysop menu. You can also read the logs with a text editor. Clicking on the arrows changes the value by ten and clicking with the Option key depressed changes the value by one.

C13. Set Screen Saver Delay.
This sets the number of minutes before automatically invoking the screen saver when this option is checked. By positioning the cursor in the upper left corner of the screen, the screen saver will be invoked immediately. By positioning the cursor in the lower right corner of the screen, the screen saver will not be invoked even after the specified time. Clicking on the arrows changes the value by ten and clicking with the Option key depressed changes the value by one.

C14. Set the Transfer Data Path.
Clicking on this box will allow you to reset the location of the "Data" folder that contains the File Transfer Section names, descriptions, and extended descriptions. This does not set the path to the actual files themselves, just the data files. If the path to the Data folder is not set correctly, no files will show up in the Transfer Section.

C15. Set the Message Data Path.
Clicking on this box will allow you to reset the location of the "Messages" folder. This allows you move the Messages folder and easily reset the path. If the path is not set correctly, you will not be able to read or post messages, nor will the E-Mail system function.

C16. Set the On/Off Switches.

a. Closed.
If checked, no new users will be allowed onto the system unless they know the New User Password that you enter in the New User Password box. You will be running a "closed" system.

b. Two Way Chat.
Checking this box will allow a two window chat mode while in "Sysop Chat" mode. Your typing will be in the top window and the user's typing will be in the bottom window. Both can type at one time if desired. NOTE: The user must be using a terminal program that supports ANSI graphics and has the ANSI option turned on in his default settings on the board for the two way chat to work.

c. Two Color Chat.
Checking this box will cause both the normal chat mode and the two way chat mode to use different colors for the sysop's typing and the user's typing. On a black and white Mac, this would be reflected by the sysop typing in bold and the user not.

d. Use Xfer Window.
Checking this box causes Hermes II to display a window during file transfers that shows the progress of the transfer. If you don't want that window, then leave this box unchecked. If this box is unchecked Hermes II will still display the filename, the number of bytes left, and the transfer speed in the lower right corner of the main window.

e. Allow Handles.
Checking this box will allow your users to use "handles" or fictitious names. If this is checked, NEW users will be asked to enter their name or a 'handle' and then their REAL First name. If this is unchecked, New users will be asked for their REAL name and City & State from which they are calling.

f. Free Phone Format.
If checked, this will allow users to enter their phone number in any format they choose. It won't even require them to enter an area code. If not checked they will be required to enter their phone number in the format xxx-xxx-xxxx.

g. Closed Transfers.
When checked, access to the File Transfer section is denied to all users. Check this if you will not be running file transfer sections or if you want to temporarily close your transfer section and keep the rest of the board running. This may be useful if one or more of the storage devices is not online.

h. Read before Download.
If checked, all users will be forced to either read or post a message before they can go to the transfer section. If a user logs on and attempts to select Transfers before reading or posting messages, he will be told that he can't do so. This will only apply to his first call of the day. If the user attempts to read messages with the Z or N command and no messages have been posted the system will give him credit for attempting to read and let him into the transfers. It will not do so if he uses (S)can messages or (Q) scan.

i. Tabby Aware.
When checked, Hermes II will conform to all of Tabby's interface guidelines. This box must be checked to mark any subs as echo conferences. For more information on using Tabby with Hermes II, see **Appendix A**.

j. Sub-Launch Tabby.
The Tabby Aware box must be checked for this option to be available. This is an advanced feature for Tabby users running multiple nodes. If running System 6.0.x, you must be running Multifinder™ in order for this feature to work. Also make sure you have enough memory for Hermes II, the Finder, and any one of the Tabby programs to run concurrently. Hermes II creates a file called "ActivateNode.temp" with instructions for the "Hermes II Recall" program available on the support BBS on how to re-activate the node that was crashmailed. You must insert the application "Hermes II Recall" at the end of your crashmail execution list. Remember also to remove the BBS program from the end of that list. Hermes II Recall will tell Hermes II that Tabby is done and that it can reclaim the port. Message importing will not take place until after the next scheduled Tabby event and Hermes II is re-launched. This does give multinode boards an option when dealing with the prospect of the board being instantly shut down on all nodes whenever they are crashmailed. Depending on Tabby's Multifinder™ compatibility, users will still be able to use Hermes II on other nodes. Don't forget to tell Tabby that you are using Multifinder and use the latest version of Tabby (v3.0).

k. Use Screen Saver.
Checking this will activate the Hermes II internal screen saver. If you plan to leave the monitor on while Hermes II runs for an extended time, the screen saver included with Hermes II is far preferable to other third-party screen savers. The screen saver will periodically flash information on the present BBS status. Some screen savers do not adequately allow background operations, and will cause transfer problems when they are running.

Security

D1. Pull down the "Setup" menu and select "Security Setup".
This will bring up the Security Setup configuration menu.

Security Setup

```
24   ⬆     Classification: | Validated                    |              Forums
25   ▓
26   ▓                                             ⊠ □ □ □ □ □ □ □ □ □
27   □     ⊠ Active Level                          1  2  3  4  5  6  7  8  9 10
28   ▓
29   ▓                              Restrictions              Access Letters
30   ▓
31   ▓      Download SL : 30    ⬍   □ 1-Can't Post        □ A -        □ N -
32   ▓                              □ 2-Can't Chat         □ B -        □ O -
33   ▓    Download Ratio : 1 : 5 ⬍  ⊠ 3-UL/DL Ratio On     □ C -        □ P -
34   ▓                              ⊠ 4-Post/Call Ratio On □ D -        □ Q -
35   ▓      Post Ratio : 1 : 4  ⬍   ⊠ 5-Can't Post Anony.  □ E -        □ R -
36   ▓    Max Posts/Day : 10   ⬍    □ 6-Can't Send E-Mail  □ F -        □ S -
37   ▓                              ⊠ 7-Can't Change A-Msg  □ G -        □ T -
38   ▓    Max Lines/Post : 100 ⬍    □ 8-Can't List Users   □ H -        □ U -
39   ▓                              □ 9-Can't Add To BBS List □ I -     □ V -
40   ▓    Max Calls/Day : 8   ⬍     □ 10-Can't See UL Info  □ J -        □ W -
41   ▓                              ⊠ 11-Can't Read Anony.  □ K -        □ X -
42   ▓    Time Allowed On : 40 ⬍                            □ L -        □ Y -
43   ▓
44   ▓         ◉ Per Call          ┌──────────────────────┐ □ M -      □ Z -
45   ▓         ○ Per Day           │ Change Descriptions  │
46   ▓                             └──────────────────────┘
47   ⬇
```

D2. Read the following information about setting access levels.
You will see references to SL (Security Level) and DSL (Download Security Level) in various places. The SL controls access to Message Subs and various other board functions. The Restriction Numbers further control user abilities on the BBS. The Access Letters can be used to selectively grant access to various message subs, Transfer Sections and G-Files as well as allow External application access. The DSL controls access to your File Transfer directories, and whether the user can download files. Setting various access levels will require some thought. You may want to read through this section once before setting them up. In addition, you can also set access according to age in both Message Subs and Transfer Sections. These security settings are "additive" in nature. So, if you set a Message Sub with a SL of 30, an Access Letter of A, and a minimum age of 18, the user must have all three attributes or he will not have access. This setup gives the Sysop enormous flexibility. If you select "New" when launching Hermes II, the application will create he following Security Level Classifications: All classifications have access to Forum 1.

SL	Class	DSL	D/L	P/R	Posts	Lines	Calls	Time	Restrictions
5	Limited	5	1/10	1/4	4	40	2	10	3-4-5-7-8-10-11
10	New	10	INF	1/4	0	40	3	10	1-3-4-5-7-8-9-10-11
30	Validated	30	1/5	1/4	10	100	8	40	3-4-5-7-11
60	Hi Access	60	None	1/4	20	100	12	60	4-5-7-11
200	CoSysop	200	None	None	99	200	99	180	None
255	Sysop	255	None	None	99	200	99	180	None

These are pre configured to save time in initial setup and give the new Sysop a point from which to start. These can be modified or deleted, and you can add new classifications to suit your needs. The following will explain how to set up new Classifications.

D3. Set a New Security Level (SL) and assign a Classification.
Click on a number from the scrollable list and type a name in the Classification box. This can be any number from 1 to 255 and any name. You will then set all the attributes for this SL Classification. By assigning this classification to a user, he will have all the attributes associated with it. You can also change any of these attributes in an individual user account by accessing either User Editor.

In the first example, we have access level number 10 (our New user SL) selected. We set the time limit per call to 10 minutes. Number of calls per day is set for 3 calls. Now any user with a SL (Security Level) of 10 will automatically have 10 minutes allowed per call and be allowed only 3 calls per day. Use care in your design or first-time users will either have too much access, or no access at all. Remember that these users are new to the system and you may not want them to have reading or posting access to the message sections or upload or download access to the file directories. You may want them to only have limited time online and allowed to call only 1 or 2 times per day until you 'validate' them by checking out the information they provide.

CAUTION: If you set a user's SL to a number for which you haven't assigned a time limit or calls per day, that user will immediately be logged off the board when he calls. The system will interpret that to mean he has 0 time limit and 0 calls allowed and will do just what it's supposed to do.

D4. Select the "Active Level" box if desired.
Clicking on this box will make this SL Classification show up in both the Local User Edit menu and Remote User Edit menu. You should set all frequently used Classifications as active so you can quickly assign a "class" of attributes to a user from the "pop up" menus.

D5. Check the Forums you wish to give users with this SL access to.
The row of 10 checkboxes will allow access (if checked) to the corresponding message "Forum". There can be 10 Forums and each Forum may have 30 message sub-bases. If the Forum box isn't checked, the user can't see that Forum at all. You may decide to have only one Forum and then have up to 30 message sections within that Forum. These checkboxes allow access to the Forum but do not control access to the sub bases inside the Forums. Each of those message sections may have a different access level. Whether a user has access to any of those sub message sections will be determined by the Security Level you have assigned him. You may further control access to a sub with an "Access Letter" or "Minimum Age" requirement.

D6. Fill in the parameters for that level.

a. Download Security Level (DSL).
Set this to some value from 1 - 255. This may be the same number as the SL. You will later assign what access this DSL receives when you set up your Transfer sections.

b. Download Ratio (UL/DL Ratio).
The Download Ratio is measured in "kilobytes" uploaded to kilobytes downloaded. To enforce a ratio you set a number in this field and check Restriction #3 (UL/DL Ratio On). If the user does not have the required Download Ratio, he will not be able to download until he either uploads enough to reach the required ratio or he is given download credit by the Sysop. He can still download from a designated "Free Download" Transfer Section.

c. Post Ratio (Post/Call Ratio).
The Post/Call ratio is measured by the number of posts to calls to the BBS. To enforce a ratio you set a number in this field and check Restriction #4 (Post/Call Ratio On). This then requires the user to post at least one public message per the number of calls you set or he will not be allowed access to the Transfer Section.

d. Max Posts/Day.
This sets the number of messages per day that a user with this access level will be allowed to post. This is something you need to consider more carefully than you may think. A user could possibly post hundreds of worthless messages. You should use a reasonable number that nobody would ever be expected to post but not some huge number. Of course you can set this differently for every access level you want to use.

e. Max Lines/Post.
This field sets the number of lines the user will be given to type in per message for both E-Mail and posts. The minimum is 10, and the maximum number is 200. If any user wants to post a longer message he can type it off-line and use the **//UPLOAD** command that is found at the Main Menu. This will allow him to post any message up to 15K in size. If you are running Tabby, Hermes II will handle messages being imported from the network regardless of the number of lines they contain.

f. Max Calls/Day.
This sets the users maximum number of calls to the BBS per day.

g. Time Allowed On.
This sets the number of minutes the user can be on the BBS.

h. Per Day/Per Call.
These control whether the specified time limit is to be enforced on a daily basis or on a per call basis.

D7. Check the Restriction Number boxes as appropriate:
Checking these boxes will restrict users access. You can change any Restriction on an individual basis from the User Edit menus.
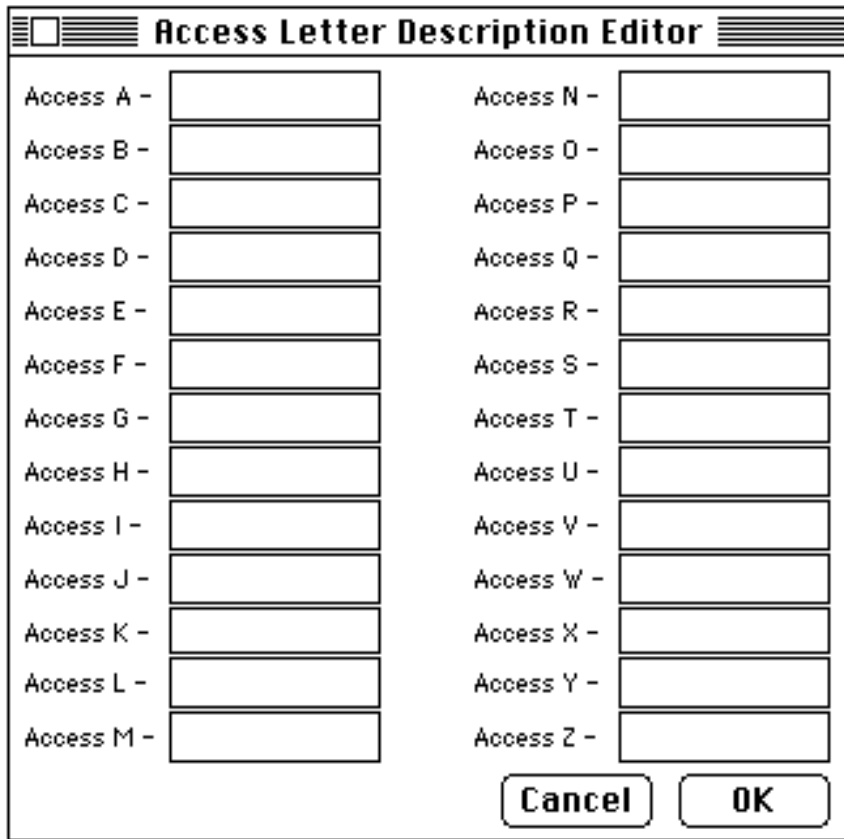
```
1-Can't Post          Can't post any messages on the BBS.
2-Can't Chat          Can't request a chat with sysop.
3-UL/DL Ratio On          Turns on the upload/download ratio.
4-Post/Call Ratio On      Turns on the Post/Call ratio.
5-Can't Post Anony.       Not allowed to post anonymous messages.
6-Can't Send E-Mail       Not allowed to send any E-Mail.
7-Can't Change A-Msg      Not allowed to change BBS Auto-Message.
8-Can't List Users        Not allowed to list BBS users.
9-Can't Add to BBS List   Not allowed to add to the BBS list.
10-Can't See UL Info      Cannot see uploader name, and Times DL lines of file listings.
11-Can't Read Anony.Can't Read Anonymous message names.
```

D8. Check the Access Letters boxes as appropriate:
Checking any of these boxes grants access to a Message Sub, Transfer Section or G-File section that has the same Access Letter entered. To gain access to an area with an Access Letter, the user must also meet any other restriction (SL or age) set for that area.

To change an Access Letter description, click on the button named "Change Descriptions". This will bring up the following editor from which you can add, change or remove the descriptions.

Access Letter Description Editor

Access A –   Access N –
Access B –   Access O –
Access C –   Access P –
Access D –   Access Q –
Access E –   Access R –
Access F –   Access S –
Access G –   Access T –
Access H –   Access U –
Access I –   Access V –
Access J –   Access W –
Access K –   Access X –
Access L –   Access Y –
Access M –   Access Z –

[Cancel]   [OK]

D9. Select another SL and fill in the parameters for that level.
In our second example we have selected SL 30 and have assigned parameters that you might want to set up for validated users. Most sysops will set several different Security Levels, each with a certain set of attributes. This allows you to grant more privileges to those who are good supporters, etc. It's entirely up to you to choose the attributes of the various levels.

D10. After making all the necessary settings, click the close box.

New User Setup

E1. Open the New User Setup menu.
The following New User Setup menu will be displayed.

New User Setup

Security Level: New ▼

Download KByte Credits: 0 ▲▼

E2. Select the Security Level Classification desired for New Users to the BBS.
Set the SL Classification desired for NEW users to the BBS from the popup menu. Normally you would select "New", but you can select any SL Classification you wish new users to have.

E3. Set the Download Credit desired for New Users.
You can optionally give "download credit" (in kilobytes) to all new users by setting an amount they can download without any upload/download ratio restriction. This setting does not affect any other restriction, such as the post/call ratio, etc.

Text

F1. Open the Text menu.
Opening the "Text" menu will display the following editor. From this online text editor you can change virtually all the text strings displayed in Hermes II. With this feature, extensive customization of Hermes II is possible. In fact, with this feature you can convert Hermes II from English to another language.
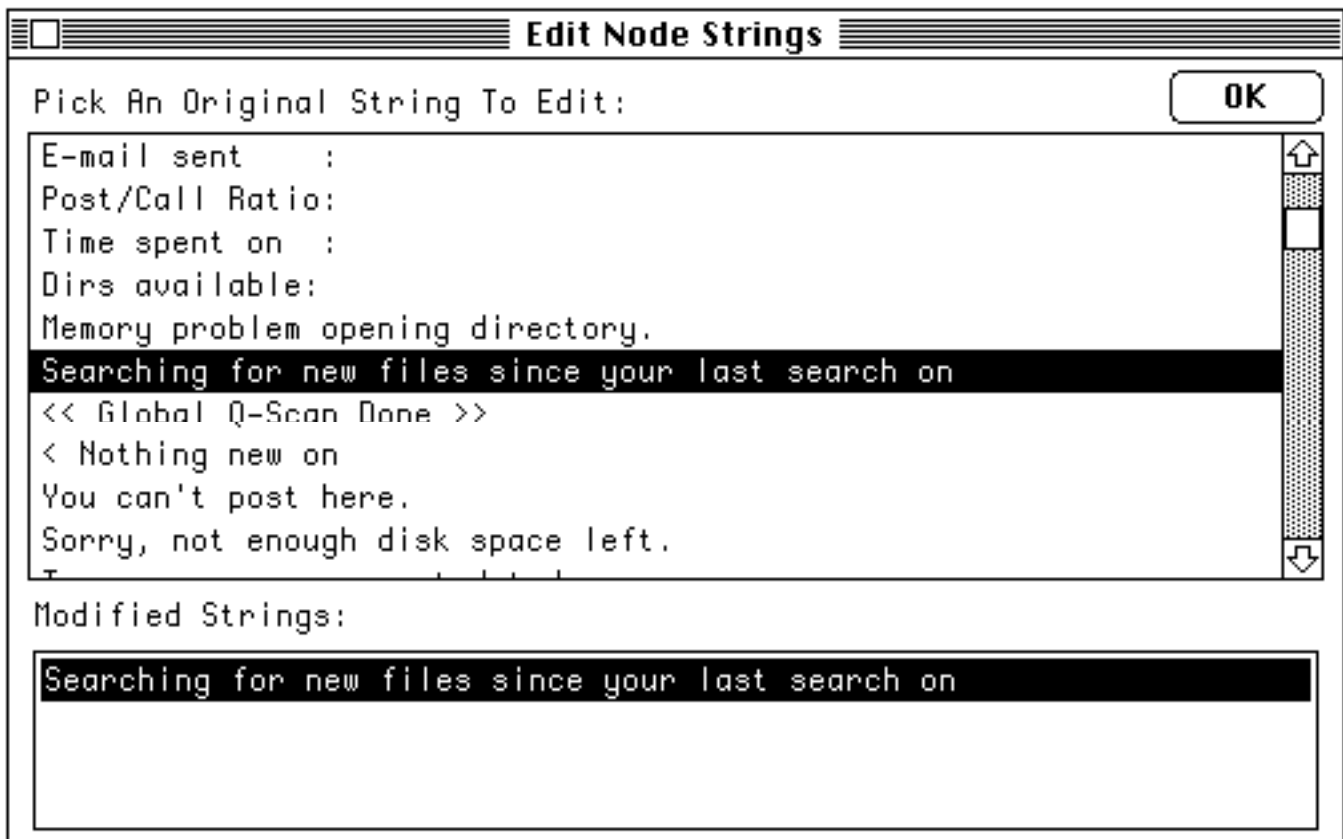
F2. Select an Original String to Edit.
Clicking on a line of original text will cause the same line of text to be displayed in the "Modified Strings" text box.

F3. Enter the new text in the "Modified Strings" box.
Type the text as you want it to appear in Hermes II. The text in the Original Strings above will not change. It will remain in its original state as a reference of what text you did change, in case you want to again change the line.

F4. Click OK to save your changes.
Now the BBS will display your modified text. The modified strings are stored in the "Strings" file in the Shared folder, so if you want to replace your BBS text globally, all you have to do is replace this file. This makes changing Hermes II to a different language as simple as replacing this file.

Menus

Menus ▶	ANSI BBS Info
	ANSI Download
	ANSI Feedback
	ANSI Log off
	ANSI Log On
	ANSI Main Menu
	ANSI Transfer Menu
	ANSI Upload Message
	BBS Info
	Download
	Feedback
	Help
	Log Off
	Log On
	Main Menu
	New User
	No New User
	Transfer Menu
	Upload Message
	Welcome
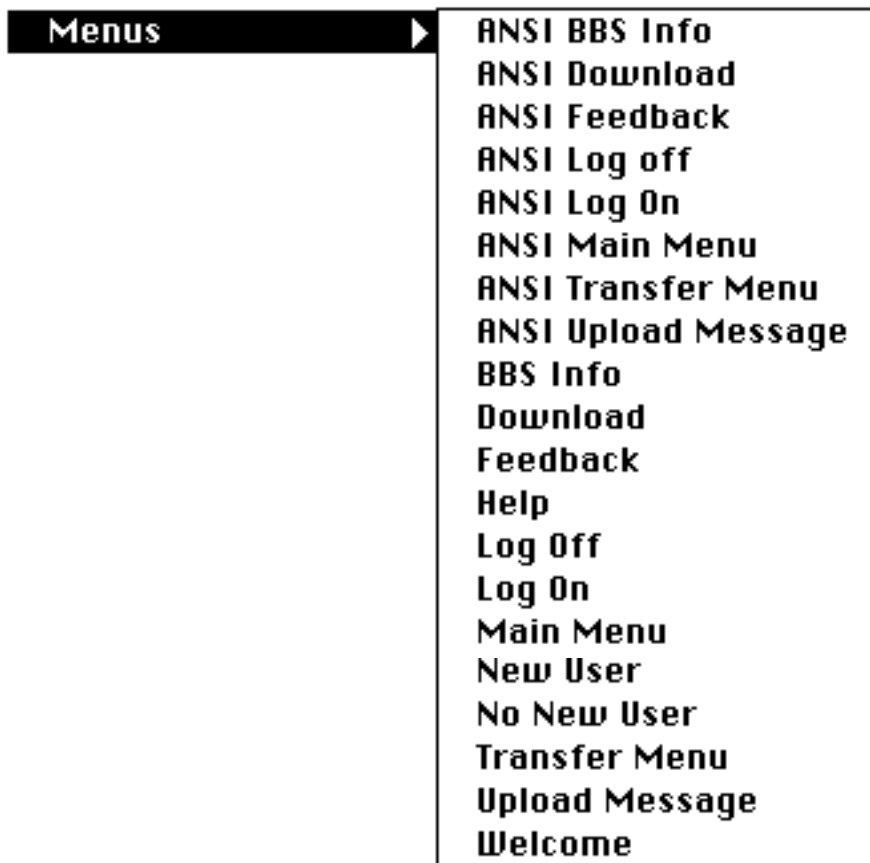
G1. Open the Menus menu.

Opening the "Menus" editor will display the following sub menus. The Menus editor gives you the capability of editing the various files that are displayed to your users as well as the menus. The ANSI files are those which are displayed in color or bold to users who are have selected ANSI graphics from their Hermes II Defaults menu and are using terminal programs with ANSI capability. For each ANSI file there is a corresponding Non-ANSI version that is displayed as plain text to users who are not using ANSI graphics.

If you select the "New BBS" option when launching Hermes II, the application will create all the BBS menus. You can either modify or replace any of these menus to customize your BBS. Be sure to save a copy of the original menu if you decide to return to the standard menu.

To edit any of these files simply select it from this menu, make your changes and close the file. You will be prompted whether you want to save your changes. It's not very likely that you will be able to make serious changes to any of the ANSI files because they have special symbols in them which you won't be able to easily read, interpret, or duplicate. There are two different types of ANSI codes to make these graphics. One is real ANSI codes. It takes some degree of study before one can learn those fully. The other is a shorthand ANSI used in many of the text files distributed with Hermes II. This shorthand simply sets colors for all text following it until the next shorthand ANSI code. To set shorthand ANSI colors just type Control-C and then the color number from 1-7. This number corresponds to the user color number which you can reference in the Defaults section online for each user if you have color turned on. This shorthand sets the background, foreground, and whether the text is inversed or underlined.

You can insert any of the "% Variables" in the menus. Inserting a % Variable will result in the actual value being displayed when logged on the BBS. You can justify a % Variable to the right with the < character and to the left with the > character. Immediately after the justification character you must put a two digit number to specify the number of spaces to move the variable. The justification point starts at the % sign itself. For example:

%vers <09 will justify the variable "version #" 9 spaces to the right of the % symbol
%vers >09 will justify the variable "version #" 9 spaces to the left of the % symbol

%vers	Current Hermes II Version Number
%opass	SysOp Override Password
%npass	New User Password
%tcall	Total Number Of Logons To The BBS
%nodes	Number Of Nodes
%tctdy	Total Logons Today
%tcnod	Total Logons To This Node Today
%ttmin	Total Minutes In Use Today
%tnmin	Total Minutes In Use On This Node Today
%tptdy	Total Posts Today
%tpnod	Total Posts On This Node Today
%tetdy	Total Email Sent Today
%tenod	Total Email Sent On This Node Today
%tutdy	Total Uploads Today
%tkutdy	Total KBytes Uploaded Today
%tunod	Total Uploads To This Node Today
%tkunod	Total KBytes Uploaded To This Node Today
%tuftdy	Total Failed Uploads Today
%tdtdy	Total Downloads Today
%tkdtdy	Total KBytes Downloaded Today
%tdnod	Total Downloads On This Node Today

%tkdnod	Total KBytes Downloaded On This Node Today
%tdftdy	Total Failed Downloads
%lstul	Date Of Last Upload To The BBS
%lstdl	Date Of Last Download To The BBS
%lstpt	Date Of Last Post To The BBS
%lstem	Date Of Last EMail Sent To The BBS
%messcomp	Message Compensation xxx.xx
%xfercomp	Transfer Compensation xxx.xx
%u.num	Current User Number
%u.name	Current User Name
%u.real	Current User's Real Name (City, State if not using handles)
%u.phon	Current User's Phone
%u.pw	Current User's Password
%u.lston	Current User's Last Logon To The BBS
%u.fston	Current User's First Logon To The BBS
%u.snote	SysOp Note For Current User
%u.sex	Sex Of The User (Male/Female)
%u.age	Current Age Of The User
%u.slvl	Current Security Level Of The User
%u.tlvl	Current Transfer Level Of The User
%u.tmsg	Total Messages Posted By This User
%u.dmsg	Messages Posted By User Today
%u.teml	Total EMail Sent By This User
%u.deml	Email Sent By User Today
%u.tul	Total Uploads By This User
%u.dul	Uploads By User Today
%u.tupk	Total KBytes Uploaded By This User
%u.dupk	KBytes Uploaded Today
%u.tdl	Total Number Of Downloads By User
%u.ddl	Number Of Downloads By User Today
%u.ktdl	Total Kbytes Downloaded By User
%u.kddl	Kbytes Downloaded By User Today
%u.swdth	Screen Width
%u.shght	Screen Height
%u.tcl	Total Calls By User
%u.ill	Illegal Logons By User
%u.dcl	Calls Today By User
%u.tmin	Total Minutes On By User
%u.dmin	Minutes On Today
%u.lstul	Last Upload By User (Date)
%u.lstdl	Last Download By User (Date)
%u.lstpt	Last Post By User (Date)
%u.lstem	Last Email By User (Date)
%u.cpu	Computer Type Of User
%u.dlcr	DL Credits By User
%u.baud	Last Baud Rate Logged In At

Transfers

H1. Pull down the Setup menu and select "Transfers".
You will be presented with the following dialog in which you will create all your transfer sections and set their access levels. You won't put your files in the sections here; that will covered later. You may have a total of 64 transfer sections, each with certain attributes that control access to that section.
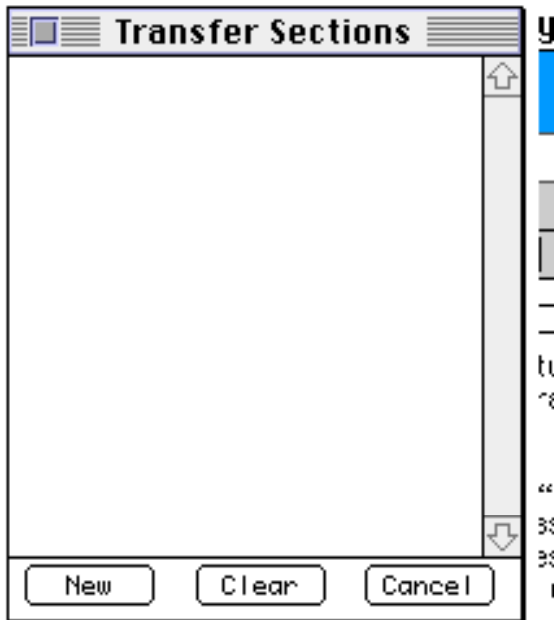
H2. Click the "New" button and then enter the new Transfer Section information.
This will cause a dialog box to appear for you to fill in the name of the new Transfer Section as it will appear on the BBS. The following dialog is how the first section (Sysop) might appear after setup.

a. Enter the Transfer Section name.
The first section, usually labeled "Sysop", is section 0. It is one that you will probably wish to create as private that only you can access. There is a command on the BBS for users to upload a file only to the sysop, and this is where those files will go. Users can not see files in section 0 and only you have access to it. That depends, of course, on you having the access levels set properly. The name will be used to identify that section on the BBS. For this particular section, you will be the only one who sees it so the name may not be important. You may change it to anything you like. Your users will see the names of all other sections so you will want to name them something relative to their contents. Section might be named "Desk Accessories", "Extensions", "Fonts", "Gifs", etc. Do not use colons ":" in your directory names, and you shouldn't use a period "." either. All other characters are allowed.

b. Enter the Max Files value.
This sets the maximum number of files allowed in the section. If that number is reached Hermes II won't allow any additional files to be uploaded to the section. This number can be changed later if needed.

c. Set the Viewing DSL.
The minimum Download Security Level a user must have to view files in this section. Note that this is the DSL and not SL. If the user's DSL is less than that entered here he will not even see the section as a choice. For the Sysop directory, set the DSL to 200 (cosysop?) or 255 so normal users cannot see this directory. This setting is for viewing only; the DSL to upload or download from the section is set as outlined below.

d. Set the DSL To UL.
This sets the minimum DSL a user must have before he can Upload to this directory. For the sysop directory (section 0) be sure to set this so all your users can upload to you. They won't see the files or have access to this directory unless their DSL is high enough. Normally this would be set to the DSL for either a new or validated user, unless you want to further restrict upload access.

e. Set the DSL to DL.
This sets the minimum DSL required for the user to be able to download files from this section. This could be used to make it possible for users to view files in a section that they could not download.

f. Set the Min Age.
This may be set to restrict any user below a certain age from accessing this section. A value of 0 means all ages may access it.

g. Set the Filename Length.
The maximum filename length is 31 characters. However, you may want to set a lower value to allow more space for the simple description. You can change this later if needed. If you do change it later, current filenames or descriptions may be truncated since the total number of characters for the two fields is 78. Increasing the filename length decreases the description length and vice versa.

h. Set an Access Letter if desired.
You may set a single Access Letter to further restrict access to a Transfer Section. By entering an Access Letter, only users that also have that letter set in their account will be able to access the section even though they may meet the minimum SL and age for access. For example, any section you want to keep private between you and a select group could be assigned Access Letter O for example. You would then set the O Access Letter for each user you wish to have access to this section.

i. Check the No MacBinarybox if desired.
Check this box if you will be using this section for non-Mac files. When checked, the transfer protocols will insure that all files in this directory are uploaded and downloaded correctly for non-Macintosh formats by stripping the "MacBinary header" information from the files.
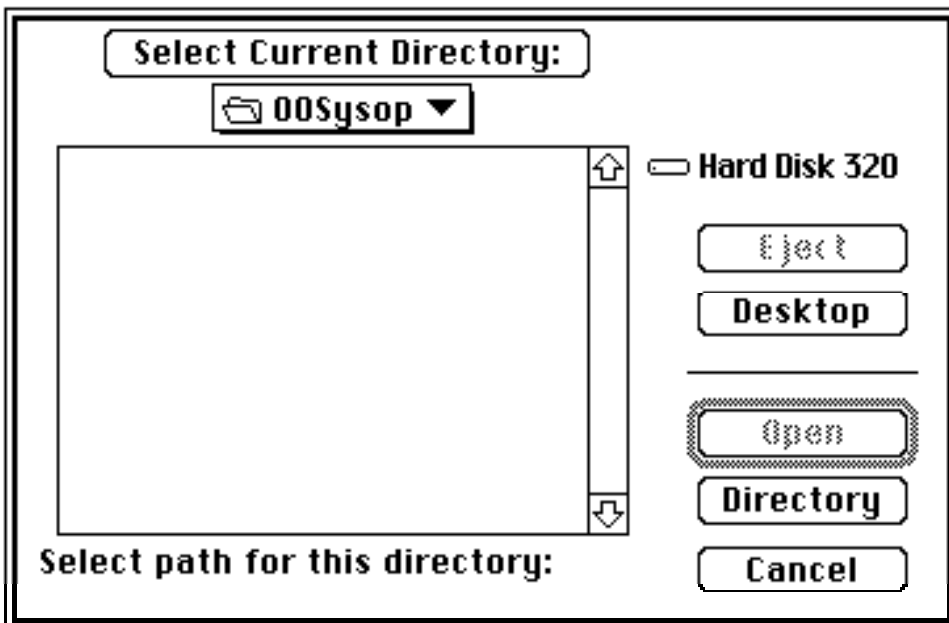
j. Check the Free Downloads box if desired.
If you check this box the user's account will not will have the downloaded amount added to his user record. In other words he not be "charged" for files downloaded in this area. You might put compression utilities, anti-viral programs and other general use programs in a Free Downloads directory. To download from a "free" directory the user must select that directory number (go to the directory) prior to downloading.

k. Set the Newscan appearance.
The three options here can change the viewing status of files in this section. For most directories, you will want to choose "normal". That means that as files are uploaded to this section, the user will see them once in his "Newscan" if he has the access to them. If you select "Always New", these files will always be listed as new. This is useful for directories of files that are about to be deleted and are constantly rotating their files. The "Never New" selection is usually useful for directories of deleted files that do not exist on this disk. Usually these files have been moved from other directories and only serve as place-holders.

l. Set the Files Path.
First go to the Finder and create a number of folders where you want the actual files uploaded to the BBS to be stored. This can be a folder on any storage device connected to your computer. Create one folder for each file directory on your BBS. You can name these folders anything you choose, such as 00Sysop, 01Extensions, 02DAs, etc. Click on the "Files Path" box and select the path to where the files will be stored for this directory. This dialog is very simple. The path you see in this picture will not be what you actually have on your system. You should navigate through your hard drive and finally double click on the folder where you want the files for this section to be. That will result in the folder name being displayed where the "00Sysop" is in the example below. Then click on the "Select Current Directory" box to set the path to the files for this directory. All new uploads for that directory will be sent to this folder.   This does not mean that all files in this directory must be stored in this location. By using the Files Manager (described later), you can keep files in different locations on any disk. This is usually how CD-ROMs are used with Hermes II. After you have set the path, click the OK button to complete setting the path for that directory.

```
┌─────────────────────────────────────────────────┐
│   ┌──────────────────────────────┐              │
│   │  Select Current Directory:   │          =   │
│   └──────────────────────────────┘              │
│      ┌────────────────────┐                     │
│      │ 🗀 00Sysop  ▼      │                     │
│      └────────────────────┘                     │
│   ┌──────────────────────┐⬆  ▭ Hard Disk 320   │
│   │                      │▒                     │
│   │                      │    ┌──────────────┐  │
│   │                      │    │    Eject     │  │
│   │                      │    └──────────────┘  │
│   │                      │    ┌──────────────┐  │
│   │                      │    │   Desktop    │  │
│   │                      │    └──────────────┘  │
│   │                      │    ──────────────     │
│   │                      │    ┌──────────────┐  │
│   │                      │    │     Open     │  │
│   │                      │⬇   └──────────────┘  │
│   │                      │    ┌──────────────┐  │
│   Select path for this directory: │  Directory   │  │
│                          └──────────────┘  │
│                          ┌──────────────┐  │
│                          │    Cancel    │  │
│                          └──────────────┘  │
└─────────────────────────────────────────────────┘
```

m. Set additional Transfer directories by repeating the above procedures.
Continue to go through a-l as outlined. Double clicking the directory name will also bring up the Transfer Section Information menu. To delete a section, first select it by clicking on it once, then use the "Clear" button. You must choose the names of all directories you will need and create them in the order you want them to appear on the BBS. You can always change the order later by clicking on the directory you want to move and dragging it to the position you want it to be. Always make certain that you properly set the path to the folder that will hold the files in that directory or Hermes II won't be able to find them for downloads.


Messages

I1. Read the following information about setting up your Message Sections.
Before starting to set up your message sections you need to have a clear understanding of the way Hermes II treats them. The sections are set up as "Forums" and "Sub forums"(subs). There can be 10 Forums and each Forum may have 30 sub-sections. A Forum is a master section heading. It's actually not much more than a name, or a header, for the section. As an example to further explain Forums, lets say that you would be running a BBS that supported 4 different types of computers; Mac, IBM, Atari, & Commodore. You would like to have distinct and separate message sections for each. You would create 4 Forums named respectively, Macintosh, IBM, Atari, Commodore. Then under the Macintosh Forum you would create your actual message sections supporting that computer. You might have subs titled "Industry News", "Hardware", "Software", "Games", "Programming", etc.   You might have several non computer related subs such as "Sports & Recreation", "World News", "Hobbies", "Movie Reviews", "Classified Ads", "Miscellaneous", etc.   Then you would do the same for each of the other Forums, but making each section appropriate for the support of that particular computer. You might have a Forum Titled "Politics" and then have sub sections under it for various discussions. A good rule is to have Forum and Sub names that cover a broad area rather than a narrow or specific area. Most users will use the N command to read all new messages and if a sub is too narrow and results in few new messages being posted, there will be little or nothing that others will read during a New scan, resulting in the message sub slowly dying.

I2. Pull down the Setup menu and select "Messages".
You will be presented with the Board Edit menu as shown below. From this menu you will create all your Message sections and set their access levels. The messages are stored in the "Messages" folder in your Hermes II Files folder. If you wish them to be placed elsewhere, just move the folder and Hermes II will ask you to find it the next time you launch the program. To force a change of folder location, hold down option when you launch Hermes II.
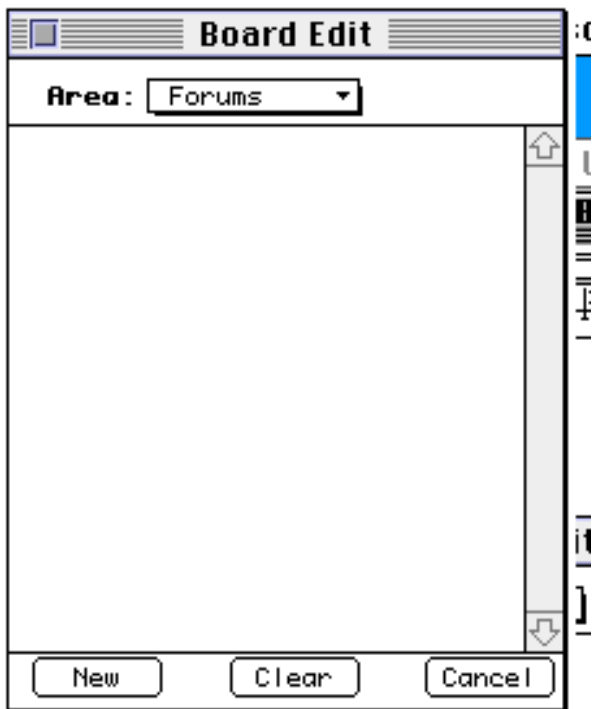
I3. Click the "New" button and then enter the new Forum name.
This will cause a dialog box to appear for you to fill in the name of the new Forum as it will appear on the BBS.

I4. Click "OK'.
This will enter the new Forum name in the list.

I5. Click New again and continue to enter new Forum names.
Enter all the Forums you want on your BBS. You can easily add more later. Double-clicking on a Forum name will let you edit the Forum name. If you want to remove a Forum you have entered, highlight the Forum name and click on the "Clear" button. Clicking on the "Close Box" will save your entries. Clicking on the "Cancel" button will close the menu without saving anything.

I6. Select the first Forum by selecting it in the "Area:" box.
Use the mouse to select a Forum so you can then enter the subs in that Forum.

I7. Click on the "New" button and enter the following Message Sub information:
This will cause the Sub forum information box below to be shown. This is where you enter all the information regarding the sub. Double-clicking on a Sub name will also bring up the dialog box for that Sub.

```
┌─────────────────────────────────────────────────────────┐
│  Enter subforum information:                             │
│                                                          │
│   Name: │Hermes Modems & Connections            │       │
│                                                          │
│     Read SL: 10  [↕]  Anonymous:    ⊠ Threading          │
│                        ○ Allow      ☐ Echo               │
│     Post SL: 45  [↕]   ⦿ Disallow   ⊠ Show City, State   │
│     Max Msgs: 50 [↕]   ○ Force                           │
│     Min Age: 0   [↕]                                     │
│                                                          │
│   Storage:            Access Letter: │   │               │
│     ⦿ Indexed File                                       │
│     ○ Multiple Files                 ╭──────────╮        │
│                                      │    OK    │        │
│                                      ╰──────────╯        │
└─────────────────────────────────────────────────────────┘
```

a. Enter the Sub name.
This name will be what is shown on the BBS.

b. Set the Read SL:
This value will be the minimum SL required to read messages in this sub. Holding the Option key down while you click on the arrow will increment the value by 1 rather than 10. (You can also restrict access to this sub by setting a "Restriction" letter as explained later in this section).

c. Set the Post SL:
This value will be the minimum SL required to post messages in this sub. Holding the Option key down while you click on the arrow will increment the value by 1 rather than 10.

d. Set the Max Messages.
This sets the maximum number of messages that will be allowed to accumulate in this sub. When this number is reached Hermes II will delete the oldest message in this sub each time a new message is posted.
(You can set any particular message so that it will not be auto-purged. This can be accomplished only by the Sysop when reading the message and typing an N.)

e. Set an Access Letter if desired.
You may set a single Access Letter to further restrict access to the message sub. By entering an Access Letter, only users that also have that letter set in their account will be able to access the sub even though they may meet the minimum SL and age to read messages in the sub. For example, any sub you want to keep private between you and a select group could be assigned Access Letter T for example. You would then set the T Access Letter for each user you wish to have access to this sub.

f. Set the method of message Storage desired.
This allows you to select how you want your messages and mail stored. You can choose to store all the messages in each Forum (and E-Mail) in a single (Indexed) file or save each message as a separate file (Multiple). Normally you should select the Indexed method, as it is much faster than the Multiple method. A maximum of 500 messages per sub is available with the Indexed method, so if you want more than this number you must select the Multiple method. This will allow a maximum of 999 messages per sub. You can change this after you have messages on your board without losing any messages.

g. Select the Anonymous message setting.
Setting Allow will allow messages to be posted anonymously, in this sub, by users who have that ability.
Setting Disallow will not allow messages in this sub to be posted anonymously by anyone. Setting Force will
cause all messages posted here to be made anonymous with or without the user's consent.

h. Set the Min Age.
This allows you to set a minimum age a user must be to access this message section. If you do not want to
restrict the sub by age, just leave the value at zero. Holding the Option key down while you click on the arrow
will increment the value by 1 rather than 10. Hermes II gets a user's date of birth during their initial logon. If
the user does not meet the minimum age set, he will not be able to access the sub even though his SL or
Access Letter would otherwise allow access.

i. Check the Threading box if desired.
Check this box if you want message threading to be used in this sub.   Normally Threading is selected because
it allows users to "follow" a series of messages about the same topic without having to read non related
messages in between. For example, if somebody posts a message titled "New Macs" then other users could
use the (F)ollow Thread command to read all replies to this string of messages, or use the (R)eply command to
reply to that message. If you do not select the Threading option, users will not be prompted for the person
"To" whom the message is directed.

j. Check the Echo box if the sub is "networked".
This box is only checked if you are running Tabby and have set this sub up as a sub that is shared over a
network. See Appendix A on "Tabby" for setting up Tabby echoes.

k. Check the box "Show City, State" if desired.
If you use real names on your BBS and you want the city/state field to be displayed in the messages, check
this box. It cannot be selected if you use aliases on your BBS.

l. Click OK when all settings are complete for this sub.
The attributes can be changed later if needed.

m. Set additional subs by repeating the above procedures.
Go through a-m as outlined.

I8. Click the Close box on the Board Edit menu to save all the settings.

G-Files

J1. Pull down the Setup menu and select "G-Files".
The following G-Files menu is displayed. The G-Files are used to keep semi-permanent text files on your BBS.
You do not have to set this up, so you can skip this on initial setup and add G-Files later.

J2. Click New and enter the name of the section in the "Section/Folder" name box.
Use the mouse to highlight the box or hit the tab key until the box is highlighted.

J3. Set the Minimum SL for access to this section.
Clicking on the arrows will change the value by ten and clicking with the Option key depressed changes the
value by one. If you do not want a minimum SL for access to this section, just leave a value of 0.

J4. Enter the Minimum Age for access to this section.
Clicking on the arrows will change the value by ten and clicking with the Option key depressed changes the
value by one. If you do not want a minimum age for access to this section, just leave a value of 0.

J5. Enter an Access Letter if desired.
If you want to limit access to a special group, you may further limit access by entering an Access Letter to
allow only those users access that have this letter selected in their user record.

J6. Click New to save the selection.
This will cause the name of the section you just typed to move to the left column indicating it has been
entered. A folder of will be created in the G-Files folder with the same name as the selection you just made.
You can enter additional names and repeat the procedure to add new sections until you are finished (up to 99
sections each with up to 99 text files). To remove a section, click on its name and then click Clear. You must
manually delete the folder for that section.

J7. Click on the Close box.
This completes the G-File setup.

J8. Put text files in the appropriate G-Files folders.
The files will now show up in your G-Files sections.

Feedback

K1. Open the New User Setup menu.
This will show the "Multiple Feedback" menu. It will allow Feedback to be sent to cosysops or any other users by using the Feedback command. If you only want Feedback to be sent to the sysop, do not complete this menu.

```
┌─────────────────────────────────────────────────────────────┐
│▤▢▇▇▇▇▇▇▇▇▇▇▇ Feedback Options ▇▇▇▇▇▇▇▇▇▇▇▇▇│
│        User List                    Feedback Users           │
│  ┌──────────────────────┐        ┌──────────────────────┐   │
│  │ Lloyd Woodall        │        │ Lloyd Woodall      ⬆ │   │
│  │ Robert Rebbun        │        │ Robert Rebbun        │   │
│  │ Damien Clark         │                                    │
│  │ Scott Mandell        │      ┌─────────┐                   │
│  │ Chuck Williamson     │      │ ▨◁◁ >>  │                   │
│  │ Craig Struble        │      └─────────┘                   │
│  │ Art Wittenauer       │      ┌─────────┐                   │
│  │ Bill Mitchell        │      │ Remove  │                   │
│  │ Joe De Vita          │      └─────────┘                   │
│  │ Sal Bernstein        │      ┌─────────┐                   │
│  │ Raj Chandra          │      │  Save   │                   │
│  │ Marty Rubinstein     │      └─────────┘                   │
│  │ Mitch Jones          │      ┌─────────┐                   │
│  │ John Quist           │      │ Cancel  │        ⬇ │       │
│  └──────────────────────┘      └─────────┘                   │
│      Enter Feedback User's Area Of Expertise (40 Characters): │
│        ┌──────────────────────────────────────────┐          │
│        │ Administration                           │          │
│        └──────────────────────────────────────────┘          │
└─────────────────────────────────────────────────────────────┘
```

K2. To Add a user to the Feedback list, do the following:
a. Select a user to whom Feedback is to be allowed.
b. Enter the Feedback User's Area of Expertise.
c Click on the Add button to include the user in the Feedback list.
d. Click on the Save button to complete the selection.

K3. To Remove a user from the Feedback list, do the following:
a. Select the user in the Feedback Users list that you want to remove.
b. Click on the Remove button to remove the user from the Feedback List.
c. Click on the Save button to complete the removal.

Sysop Logon

L1. Select "Local Logon" under the Sysop menu.
This will log you on the BBS so you can set up your account.

L2. Type "New" at the prompt and enter the information asked for.
This will take you through the normal sign on procedure, getting your name, password, etc.   Answer the questions as they are presented until you are fully logged onto the BBS. The system will pause at various points so you can read information. Press carriage return when ready to continue. Since this system doesn't yet know you, it will take you through all the same steps as it will for your users, including sending a note to the sysop asking for validation. Once you reach the Main Menu you will have the same access that you set up for your first time users. At this point you can explore a bit and see what everything looks like (without sysop power) or log off and set your access levels.   You can make sure you have it set up as you want by checking all commands with your currently, low access level.

L3. Select the User Edit menu under the Sysop command.
This will show User #1 (Sysop) by default.

L4. Set up the Sysop user account.

a. Set the SL to 255.
Near the bottom on the left side you will see edit boxes for SL and DSL. You need to set both of these to 255 for yourself. This gives you sysop power.

b. Check the Sysop box.
This gives you full Sysop access.

c. Check all Access Letters for your account.
This will give you access to any section that may ever require an Access Letter.

d. Check all the Forum boxes.
Check the boxes labeled MeFr that stands for "Message Forums". This gives you access to all message Forums, even though you may not have created them all.

The BBS is now operational!

Sysop Menu

```
Sysop
Local Logon        ⌘L
Fast Logon         ⌘N
Available
Hold Offline
·····································
User Edit          ⌘U
File Manager       ⌘D
Logs                ▶
Views               ▶
·····································
SysOp Externals
Terminal Mode      ⌘M
```

Local Logon

This will allow a manual logon from the keyboard by you or another user.

Fast Logon

This will log the Sysop on automatically.

Available

This will be checked or unchecked according to how you set your availability time in the System Prefs dialog under the Options selection. If you select this menu item, Hermes II will "toggle" the setting off and on. You must use care in selecting this because at the beginning and end of the specified "Sysop Available" hours, the system just toggles to the opposite setting. If you manually change the availability, you must later manually return it to its correct state.

Hold Offline

If you select this menu item, Hermes II will set up a counter for each node to take it off hook at the next call. So, eventually, all nodes will be off hook or at least open. To go back online, you must manually get the modems to hang up. Generally, this feature is   intended to be used right before quitting Hermes II. The "ATZ" command issued by Hermes II upon quitting will take care of putting the modems on hook again.

User Edit

This command brings up the Local User Editor, which allows you to set each user's attributes such as Security Level, etc. It will not work until there is at least one user in the file. The Remote User Edit dialog is documented elsewhere in this manual.

```
                              User Edit
                                              Lloyd Woodall        ⬆
Name :  Joe De Vita          #9    ☐ Alert     Robert Rebbun
                                        ☐ Delete  Damien Clark
RN   :  Torrance, CA               ☐ Sysop     Scott Mandell
                                              Chuck Williamson
P/PW:  310-555-1212  TEST                     Craig Struble
                                              Art Wittenauer
Age  :  48 M  8/15/45              ☐ 1-Can't Post   Bill Mitchell
Comp:  Macintosh IIfx             ☐ 2-Can't Chat   Joe De Vita
                                  ☐ 3-UL/DL Ratio On  Sal Bernstein
Last :  8/27/93 6/10/90           ☐ 4-Post/Call Ratio On  Raj Chandra
Msgs: 410    ⬍  Email: 183        ☒ 5-Can't Post Anony.  Marty Rubinstein
                                  ☐ 6-Can't Send E-Mail   Mitch Jones
Logs : 1482  ⬍  Today. 0          ☒ 7-Can't Change A-Msg  John Quist
Upld : # 15  ⬍     K: 1945        ☐ 8-Can't List Users   Carlin Wiegner
                                  ☐ 9-Can't Add To BBS List  Chuck Ross
Dnld : # 481 ⬍     K: 38516       ☐ 10-Can't See UL Info  Walter Korman
                                  ☐ 11-Can't Read Anony.  George Schaefer
Cred: 0      ⬍  DSL : 50                            Martin L. Minogue
SL   : Registered User                                                ⬇
MeFr: ☒☐☐☐☐☐☐☐☐☐                              User#  A-Z  LastOn
      A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
Acc : ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐■   Search  Found:All
Baud: 14400/ARQ              Note:
```

The following is a brief explanation of some of the stats you see in the editor.

Name: Name or Alias & User Number   **Alert:** Checked box will sound alert at user's next call
RN Real name or City/State   **Delete:** Checked box will delete user
P/PW: Phone/Password   **Sysop:** Checked box will give Sysop access
Age: Age, Gender, Date of birth
Comp: Computer type - Select popup menu to change
Last: Last Date Called -- First date called
Msgs: number of public messages posted   **Email:**   E-Mail sent.
Logs: Total number of times called   **Today:** Total number of times called
Upld: Number of files uploaded   **K:** Kilobytes uploaded
Dnld: Number of files downloaded   **K:** Kilobytes download
Cred: Kilobytes of DL credit given by Sysop   **DSL:** Download Security Level
SL: Security Level/Classification
MeFr: Forum Access - check mark gives access
Acc: Access Letters - check mark gives access
Baud: The user's connect result code of last call   **Note:** Scratch pad for user notes
Restrictions: Checked boxes apply restrictions as noted

There are 2 user editors in Hermes II. The "Local User Editor" (shown above) is entered from the pull down "Sysop" menu. The "Remote User Editor" is accessed while logged onto the BBS. All changes you make are automatically saved when you select another user, click the OK button (which will close the window), or when you close the window with the close box. Care should be taken so that you are not concurrently logged on and in the Remote User Editor or your settings here will not be saved. The User Editor is where you will edit the access levels and various other attributes of a user. It also shows you the user's statistics, some of which you may change and some you can't.

Hermes II will automatically capitalize a user's name. If you want to override this feature, change the name to whatever you want it to be and depress the Option key while closing the User Editor. Your changes will then be saved exactly as you entered them.

(User#)   (A-Z)   (LastOn): These three buttons at the bottom of the scrolling list will sort your list by user number, alphabetically, or by the last date called.

Search: Clicking on the Search button will bring up the following dialog:

This dialog allows you to very quickly search your user base. With a large BBS you will appreciate this feature and its speed. Any field you leave blank will not count in the search. Any field with a value entered into it will be searched for. The name field is a constant wild card. If you enter "Chris" into the name field, all users with "Chris" somewhere in their name will be selected.   The other four fields require numeric values. You can search for those users with SLs greater, less than, or equal to the number you enter in the box. You can use the Tab key to quickly navigate between the boxes. When you are finished entering the parameters, click Search and in seconds all matching users will appear in the list in User Edit. The number of users found will be displayed at the bottom next to the search button.

File Manager

This selection is for uploading new files and deleting or editing files already online. The following dialog will be shown upon selecting File Manager:
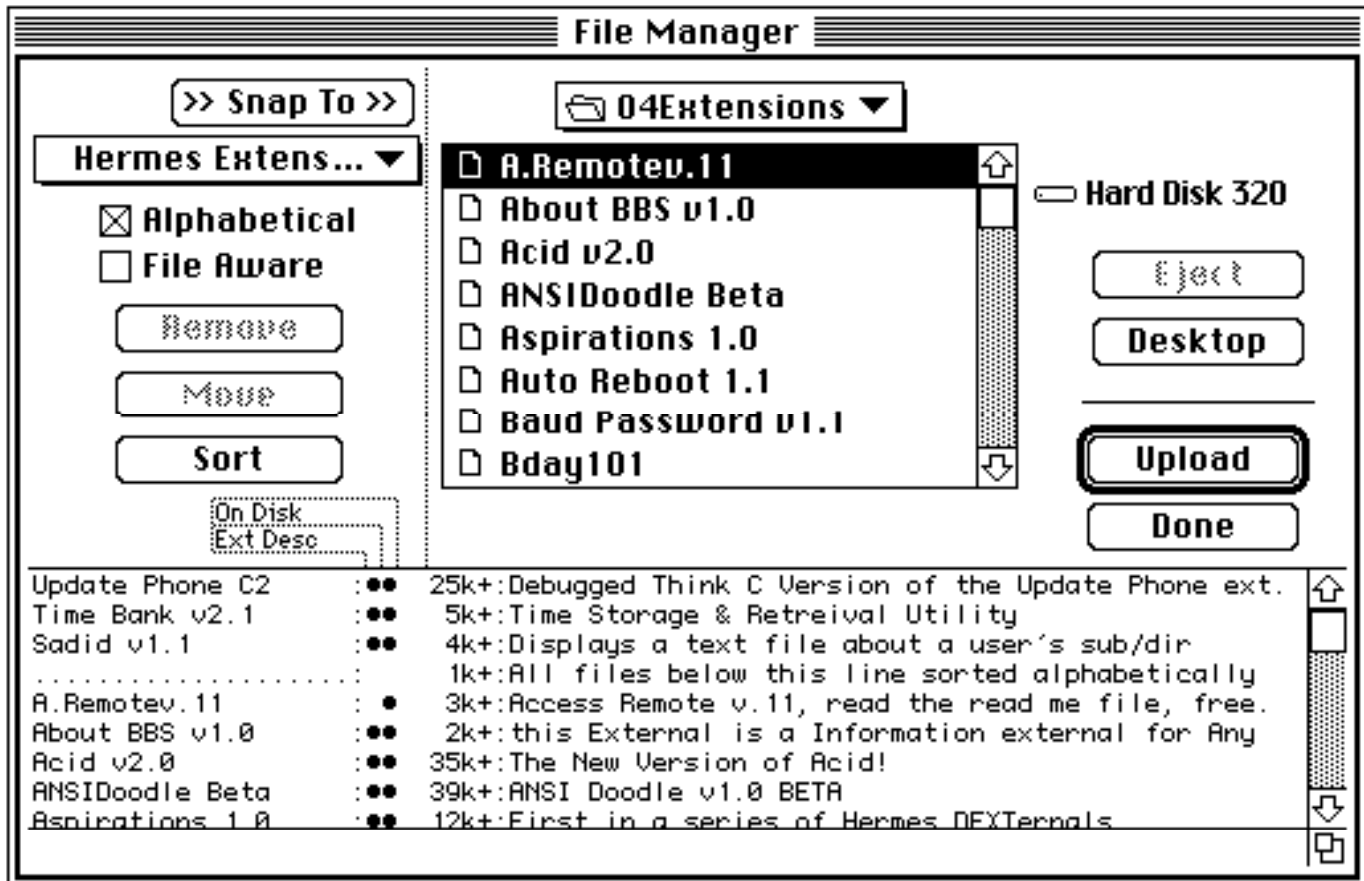
When you press Upload or Remove, the File Manager will ask you if you want to delete the original or actual file respectively from the disk. Holding down option when you click on these buttons will bypass this dialog and delete the files. You can remove multiple files at one time by using the Shift key and clicking or dragging each item and de selecting an item with the Command key. There are three parts to each file listing; the name, description and extended description. Double clicking on each of these three parts will allow editing of that information. Extended descriptions are edited by clicking in the middle area between the colons, descriptions by clicking on the descriptions, and file names by clicking on the file names. Pressing >>Snap To>> will change the top directory of files on disk to the actual Hermes II disk directory that you are currently viewing on the bottom. Setting "File Aware" will make Hermes II mask out any files from the list of real files on top that have already been uploaded to the current directory on the bottom. This command is helpful in finding any files in a folder that are not on the BBS. The "Alphabetical" check box refers to whether you want to sort your files by date or alphabetically. If you have more than approximately 500 files in a section, the list will be truncated. The first 32k of files will be listed and can be edited. The remaining files can be edited from the remote editor.

Logs

The Logs sub-menus will include the "Usage Record", Today" log and "Archived logs". The Usage Record shows BBS statistics for various usage parameters. The "Today" log shows a detailed log of each user's BBS activity. It even includes a list of what menu commands each user typed in while online. The archived logs are old Today logs. You set the number of days activity you want to keep in the System Preferences menu. You can have up to 99 days of logs retained. Old logs are automatically deleted as new logs are made.

Logs	▶	Usage Record	⌘R
		Today	⌘T
		....	
		9/5/93	
		9/4/93	
		9/3/93	
		9/2/93	

Views

The "Views" menu will allow you select any node or the status bar and make it the active window. You can also select a node by using the function keys on an extended keyboard and by pressing "Command/Option #" for keyboards without function keys. When a user is online, the node number is replaced with the actual name of the user on that node.

Views	▶	Node #1
		Node #2
		✓Local
		....
		Status

Sysop Externals

This takes you to the Sysop External applications (if any are installed).

Terminal Mode

This takes you into a built in communications terminal for calling other systems. The Terminal Menu is greyed out until you select Terminal Mode.

Terminal	
Baud	▶
Emulate	▶
Local Echo	
Strip High Bit	
Dial...	

Terminal Mode - Baud
You can set the terminal DTE-DCE (computer to modem) speed by opening the "Baud" menu item and selecting the speed from the sub menu. For most operations you would not need to access this menu.

Terminal Mode - Emulate
You can set the terminal to emulate either TTY (ASCII) or ANSI by this selection.

Terminal Mode - Local Echo
You can turn local echo on or off from this selection. If the local echo mode, the terminal "echoes" your keystrokes. If the BBS you are calling does not itself echo keystrokes back to your terminal, then select this to make them visible on the screen. If you get double characters when typing, turn local echo off.

Terminal Mode - Strip Hi Bit
By selecting this option you can change your system from 8 data bit operation to 7 data bit operation. This will allow you to call systems with this setup.

Terminal Mode - Dial
If you select "Dial" the following Dialer menu will be brought up.

You can enter frequently-called BBS names in the left columns and their phone numbers in the right columns for easy dialing from the built-in dialer. When you click on the "OK" button, Hermes II will save any new BBS names and numbers and dial all numbers that are checked, beginning with the top most number. If a number is busy, the dialer will reset and skip to the next number. If only one number is checked, Hermes II will continue to dial the number until a connection is established. Once a connection is established, Hermes II will automatically uncheck the dial box for that BBS. While Hermes II is dialing, you can cancel the dialing by hitting any key. Hitting "Cancel" will close the menu without saving or dialing.

Protocol Menu

The Protocol menu is used in file transfer operations.   You can send and receive files with several transfer protocols as well as other miscellaneous transfer-related operations.

```
┌─────────────────────────────┐
│ Protocol                    │
├─────────────────────────────┤
│ Send ASCII...               │
│ Send X-Modem          ▶     │
│ Send Z-Modem          ▶     │
│ ··························    │
│ Receive ASCII...            │
│ Receive X-Modem       ▶     │
│ Receive Z-Modem...          │
│ ··························    │
│ Set ASCII...                │
│ Set Z-Modem...              │
│ ··························    │
│ Set Receive Folder          │
└─────────────────────────────┘
```
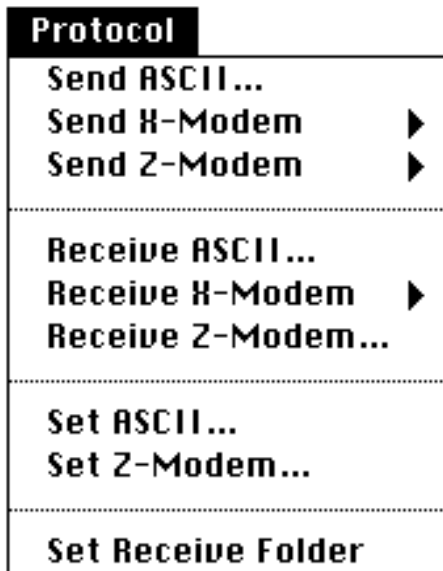
Protocol - Send ASCII...
This is used to send a "text" file. If you use the //upload command to insert text, you should use this protocol to send your uncompressed text file.

Protocol - Send X-Modem
This sends files by any of 4 different X-modem protocols.
Xmdem: standard 128 byte x-modem
Xmodem 1k: 1024 byte x-modem
Ymodem Batch: multiple 1024k x-modem files
Ymodem-g: Streaming protocol for error-correcting modems only.

Protocol - Send Z-Modem
This sends files by the very reliable Z-modem protocol. Z-modem Batch allows you to send multiple files.

Protocol - Receive ASCII...
This will receive files being sent to you via ASCII protocol.

Protocol - Receive X-Modem
This allows you to select and receive files being sent to you via X-modem and X-modem 1k protocols.

Protocol - Receive Z-Modem
This allows you to select and receive files being sent to you via Z-modem and Z-modem batch. Hermes II has an "auto-start" feature that will automatically start receiving the file if the other system supports this feature. If the transfer does not start automatically, select this command when downloading via Z-modem.

Protocol - Set ASCII...

This command opens a menu where you can type in the ASCII file type Hermes II will save all files received by the ASCII transfer protocol.

Protocol - Set Z-Modem...

This command is currently unimplimented.

Protocol - Set Receive Folder

By selecting this command you can designate what folder Hermes II will put all downloaded files in.

User Menu

Chat

Selecting this while a user is online will put you in chat mode where you and the user can have an online conversation. Selecting it a second time will take you out of chat mode and return the user to his original position on the BBS. See the System Preferences for an explanation of the various Chat modes available.

Change Access

This brings up the User Editor and allows you to make changes to the current user's file, Security Levels, etc., while the user is online. Any changes you make will take affect immediately.

Squelch User

Prevents the current user from typing anything until you select this command again. Useful to prevent the user from typing commands etc. while you take control for any reason such as while you're adjusting his Security Level.

Time + or - 5

Will add/subtract 5 minutes of the current user's remaining online time.

Temporary Sysop

Selecting this gives the current user temporary access to the online sysop commands. Select again to turn off. This is for the current call only and would not be in affect if the user hung up and called back. A possible use for this may be in a case where you wanted to use the sysop commands to sort file sections or move a file from one directory to another for this user. You could also use the command to disable his keyboard (Squelch User) while you work.

Disconnect ▶	Now	⌘5
	In 5 Minutes	⌘6
	Garbled	⌘7
	Time Expired	⌘8

Disconnect

Terminates the current call in whatever manner you select.
"**Now**" gives no messages or warnings and disconnects the user.
"**In 5 minutes**" adjusts the user's online time to 5 minutes and will expire in the normal fashion. "**Garbled**" generates some 'garbage' characters that simulates line noise, disconnecting the user.
"**Time Expired**" gives the user notice that his time has expired and disconnects.

Edit Menu

Hermes II has the standard Macintosh Edit commands.

File Menu

Hermes II has the standard Macintosh File commands. By selecting Capture Text you can save to a file on your hard drive all text send to the screen. Hermes II will continue to capture all text until manually turned off by reselecting Capture Text.

File	
New	
Open...	⌘O
Close	⌘W
Save	⌘S
Save As...	
Capture Text	
Quit	⌘Q

Miscellaneous

Status Window

The BBS Status Window displays the following information in the abbreviated form below. You can resize the window by dragging the lower right corner of the window.

```
                                  Status
C:181 ● T:1203 ● P:15 ● U:2/0 ● D:146/4 ● MF:594k ● DF:232402k ● F:44 ● LU:Lloyd Woodall

David Bolling #93 ● Puyallup, WA (28/M) ● 206-555-1414 ● S:75/D:75 (1)
AL:PTZ ● RS:----5-7---1 ● FR:XX-------- ● 14400/ARQ ● TL:86
```

C: **Number of Calls Today**
T: **Minutes Active Today**
P: **Posts Today**
U: **Successful Uploads/Failed Uploads Today**
D: **Successful Downloads/Failed Downloads Today**
MF: **Memory free in Hermes II application**
DF: **Disk Free Kilobytes(on the path for the Hermes II Files directory)**
F: **Number of Feedback messages waiting for sysop**
LU: **Name of Last User online**

User Status:

Name (Alias)
User Number
Address (Real First Name)
Age/Sex
Phone Number
S: Security Level
D: Download Security Level
Number of Times called Today

AL: Access Letters
RS: Restriction Numbers
FR: Forum Access
     Connect Speed
TL: Time Left

Form Letters

Form letters are useful in sending repetitive messages, such as validation messages, replies to common questions, etc. You can send form letters to a user directly or when replying to mail.

To make form letters do the following:

1. Under the Hermes II File menu select New to begin a new letter. You can also use a text editor to write your message. By using Hermes II text editor however, it will automatically set the line width and will look exactly the same as when viewed online.

2. Type the message title on the first line and begin the body of text on the second line. You do not have to put any Hermes II command at the end of the message.

3. Save the message. (You can name it to anything you want).

4. Put the form letter in the "Forms" folder.

You can have up to 99 forms in the folder. They will be shown alphabetically, so if you can put a number as the beginning character to help sort them.

To send form letters do the following:

1. Type /F and then enter the user to send the mail to. At the next prompt, enter the Form Letter number.

2. If you are at the E-Mail prompt, type O hen enter the form number when prompted.

Chat Call Sounds

You can customize the Chat Call sounds that Hermes II gives when a user requests a chat with the Sysop. These can be different for each node. Just name the sound files Chat 1 (be sure to capitalize the C and put a space after t) for Node 1, Chat 2 for Node 2, etc. and install them in the System folder. These sounds will then be played in place of the normal System sound when a user pages you.

Alert Sound

If you have the "Alert" box checked for any users, you can have a custom alert sound alerting you when they log on the BBS. Put a sound file in your System folder named "Alert User"(be sure to capitalize the A and U and put a space after t). This will then be played in place of the normal System sound when one of these users logs on.

Sysop Commands

If the sysop logs on remotely, he will be asked for the Sysop password at logon. A cosysop will not be prompted for the sysop password unless he attempts to use the //UEDIT command. This allows you to restrict cosysop access from the user information. You can get a list of available commands by typing "//?" (2 slashes and a question mark). The following is a list of available Sysop Commands.

Sysop and Cosysop-Sysop Commands:
```
//SORT       : Sort Transfer Directories
//MOVE       : Move files
//REN        : Rename files
//UEDIT      : Go to user editor
//STATS      : Board status information
//LOG        : Today' s log so far
//YLOG       : Yesterday's log
//ZLOG       : Usage record
//UPLOADALL : Upload entire directory
```

Sysop Only Commands:
```
//MAILR      : Read all mail
//CHUSER     : Change into a user
/F           : Send a Form Letter
```

Typing **//SORT** at the Transfer Menu prompt will sort either an individual transfer section or all the sections. You can sort by date or alphabetically by filename.

Typing **//MOVE** at the Transfer Menu prompt will allow you to move files in the current section to another section. When prompted for the filename, type either a full or partial filename and Hermes II will, one at a time, ask you if you want to move that file.

Typing **//REN** at the Transfer Menu prompt will allow you to rename files in the current section. When prompted for the filename, type either a full or partial filename and Hermes II will, one at a time, ask you if you want to rename that file. You can change the filename, description and extended description if desired. If you do not wish to change the particular item, just type a carriage return and that field will not be changed. This will also change the name of the actual file that is in that transfer section folder.

Typing **//UEDIT** at the Main Menu prompt will bring up the online user editor. You and/or your cosysop-sysop can use this editor from remote to do all user maintenance.

When you are reading mail from a user, typing 'V' (short for Validate) at the mail prompt will take you to that user's record in the user editor (UEDIT) so you can validate him. When you are done you will be returned to the mail prompt to complete your mail.

Your user file will be the first displayed and contains the same information as that in the other user editor:

Name: John Jobob #11
RN : Tweedledy, WA
PH : 206-555-1212
Age : 18 M
PW : EGGS
Comp: Macintosh SE
Last: 2/15/91 2/15/91   0
Msgs: P=0 E=0
Log : 1 1 I=0
UpDn: U=0-0k D=0-0k
SL : 70 DSL=70
Rest: A   E G
MeFr: XXXXXXXX-X

Typing a question mark at this prompt will show the following User Editor Commands:

Q:uit   D:elete user   Y:(Un)Mark as Sysop
R:estore user   S:ecurity Level   A:Password
T:ransfer Level M:Computer Type   C:Change Data
O:Change Note   Z:Access Letters   E:Edit Restriction Numbers
F:orum Access   U:ser change
N:ew Name   G:Change Birthday
P:hone number   L:Real Name
]:Forward User   [:Backward User

Most of these commands are self explanatory except a couple which may not be evident.
U:ser change lets you choose the user you wish to edit.
N:ew Name command lets you change the name of the user.
R-estore User is an un-delete command, allowing you to restore the user to active status if you have previously marked him/her for deletion.
C-hange Data will allow you to edit the following fields of the currently-selected user. Once you type the letter to change the value in any of these fields, Hermes II will prompt you for the new value.

D:Files Downloaded   U:Files Uploaded
E:Kbytes Downloaded   T:Kbytes Uploaded
P:Messages Posted   C:DL Credits
N:Number Of Calls

E-dit Restriction Numbers will allow you to edit the Restriction Numbers for the currently-selected user. Entering the number will toggle the restriction on and off. A question mark will display the list of restrictions with the corresponding numbers.

*=Restriction Turned On

  1-Can't Post
  2-Can't Chat
  3-UL/DL Ratio On
  4-Post/Call Ratio On
* 5-Can't Post Anonymous
  6-Can't Send E-Mail
  7-Can't Change Auto-Message
  8-Can't List Users
  9-Can't Add To BBS List
 10-Can't See Uploader Info
 11-Can't Read Anonymous

Typing **//STATS** at the Main Menu prompt will display the BBS statistics for the current day. The two ways the statistics can be displayed are explained in the initial setup.

Typing **//LOG** at the Main Menu prompt will display the "Today" Log. This shows detailed activity of each user that has logged on today so far.

Typing **//YLOG** at the Main Menu prompt will display the "Today" Log from the previous day.

Typing **//ZLOG** at the Main Menu prompt will display the day's BBS statistics so far.

Typing "**//UPLOADALL"** allows you to upload the contents of an entire folder to a file section. This is especially useful when setting up a new BBS or adding an entire folder or CD ROM consisting of many files. If you are setting up a new section, just put all the files for the section in a folder and use this command. It will bring up the same file dialog box as the normal upload command but with a big difference. After you double click on the first file you will be asked if you want to upload the entire folder. If you answer "Yes" you will be asked if you want to put in descriptions after each file is uploaded. If you answer "No" Hermes II upload all the files in that folder without descriptions. If you answer "Yes" one file will uploaded and you will be asked to enter a description/extended description. The process will continue until all files are uploaded.

Typing **//MAILR** at the Main Menu prompt will allow you to read ALL mail. This includes all user's mail as well as your own. It will also give you the option to delete any mail message.

Typing **//CHUSER** at the prompt will allow you to change yourself into any other user, giving you all that user's attributes and access levels. This is handy for testing so you can insure you proper setup for a user level. There are a number of things you might want to use this feature for and it's left up to your own imagination how you may wish to use it.

Typing **//LOAD** in local keyboard mode will allow you to upload up to a 15k message. You will be prompted for the file that will automatically be inserted when you use the next (P)ost or (E)mail command. This corresponds to the //UPLOAD command used by remote users.

Trash Users Feature

If you do not want to allow a user to log on with a particular name, put either the full or partial name in the "Trash Users" file. This file is located in the Misc Folder. You will likely want to put common vulgar names in there to prevent pranksters from using these names where other users will see them. The names should be in ALL CAPS, and put one name per line. Be sure that you do not put a blank line anywhere, otherwise no new name will be allowed and new users will not be able to log on the BBS.

External Applications

If you want to add external applications for additional functionality, these should be put in the Externals folder. After placing an external in the folder, you must restart Hermes II to load the external into memory. The memory for externals is taken from Hermes memory, so if you add several externals you may have to increase the memory allocation for Hermes. Care should be taken in adding externals, as it is possible that one external may not be compatible with another external, and this will cause erratic operation or a crash. In general, you should add only one external at a time and wait a day or two to see if operations remain normal. After that period of time, you can reasonably add another external for evaluation. If your BBS should experience problems, you should consider removing all externals and only add them again after you have stabilized your system.

File/Folder Placement

The following shows Hermes II files and folders placement.
Hermes Files folder - Any location - Normally in the same folder as the Hermes II application.
Within Hermes Files Folder:
Data Folder (can be moved if you reset the Transfer Data Path in System Prefs)
Externals Folder
Files Folder (can be moved to any location on any hard drive - Set the Files Path for each transfer section)
Forms Folder
GFiles Folder
Logs Folder
Messages Folder (can be moved if you reset the Message Data Path in System Prefs)
Shared Files Folder
Misc Folder

Data Folder - Hermes places all file descriptions and extended descriptions here.
Externals Folder - You manually place all external applications here. Restart to activate externals.
Files Folder - You make additional folders for each of your transfer sections and put them here.
Forms Folder - Put all text file form letters in here. Name the form letters with any name you wish.
GFiles Folder - G-Files menu will allow you to create sections/folders. Just put text files in the folders.
Logs Folder - All archived activity logs automatically are placed here.
Messages Folder - Email folder and for1 through for9 folders must be placed in Messages folder.
Email Folder - "EMail Data" and "Email Text" are automatically placed here.
for# Folders - Forum folders have "Message Sub Data#1" and "Sub1 Messages" for sub #1 and this continues for each of the 30 possible subs per forum.
Shared Files Folder - Essential BBS files are placed here. You MUST keep a current backup of these files.
        Included are GFiles, Message, Modem Drivers, Nodes, Strings, System Prefs, Text, Transfers and
        Users.
Misc Folder - Auto Message, BBS List, Brief Log, Last Users, Today Log, Trash Users and Usage Record
        should all be in the Misc folder.

Editing Computer Types

The following shows how to edit computer types:

1. Launch ResEdit
2. Open the "Strings" file (in the Shared folder)
3. Open the STR# resource
4. Open the "Computer Types" resource
5. Edit the computer types
6. Save the changes.

BBS Backup

You should periodically back up critical files on your BBS. You should make frequent backups (daily preferred) of your entire Hermes Files folder (minus any transfer sections). As an absolute minimum you should keep at least one "safety copy" of your Shared Files folder as your registration information is contained in these files. If you lose the files in the Shared Files folder, your BBS will become unregistered. You should always back up your entire Hermes Files folder (Messages & Shared Files together) to insure proper message pointer operation in case you have to revert to a backup copy.

Up/Down Arrows

The "Up/Down Arrows" are used extensively in Hermes II. Their use prohibits an "out of limits" setting in all fields. To change values, all Up/Down Arrows are setup as follows:

Clicking on an arrow with no other key changes the value of the largest digit.
Clicking on an arrow with the Option key depressed changes the value by the second largest digit.

In the Local User Edit menu where fields may have more than a two digit number the following additional options apply.

Clicking on an arrow with the Command key depressed changes the value by the smallest digit.
Clicking on an arrow with both Command and Option keys depressed changes the second smallest digit.

Using a CD ROM

Hermes II supports the use of CD ROMs. Some CD ROMs have prepared file names and descriptions included with the CD. To use these descriptions, you may have to use a convertor application (available to registered users on to change the descriptions to Hermes II format. The support BBS does have a convertor that works on the most common CDs. To set up the CD, just put the converted descriptions in the Data folder and make a transfer section with the same name. Finally set the pathname to the actual folder on the CD that contains the files for that transfer section.

At the present time, Computer Classifieds is aware of two commercially available CD ROMs that do have Hermes descriptions, or descriptions that can be converted easily by the convertor available from the Support BBS. These are:

BBS in a Box - 9000 shareware and public domain Macintosh files
Erogenous Zones - Volume I - 4500 Adult gif images
Erogenous Zones - Volume II - 4500 Adult gif images

Miscellaneous Notes

If you need any special help or have problems with anything not covered here, use the support BBS listed at the beginning of this manual. You can establish an account there for 30 days while you evaluate Hermes II.

Holding down the command key when you boot Hermes II will cause it to bring up the dialog asking you to locate your System Prefs file. Holding down the option key will cause Hermes II to ask you to locate the "Messages" folder.

Specifying names in Hermes II is easy. At any name prompt in the system such as that to send E-Mail, you can tell Hermes II to attempt automatic name completion. For instance, if you want to send mail to "Joe Schmoe", just type "Joe S*". The "*" wild card character causes Hermes II to look for the first available name that starts with what comes before. For any more advanced name searching, you should use the user editor search window that will search for part of a name anywhere in the name.

Do not attempt to modify the Hermes II application itself. Hermes has numerous internal checks for unauthorized modification, and it's protection features will gradually render the application unusable.

Appendix A - Tabby

Using Tabby

This manual is not intended to explain the workings of Tabby, but notes are given below for using it with Hermes II. That program comes with a manual of its own, and its latest version (and last version) is 3.0. The author has stated that support for the program will no longer be available after November 23, 1993. There will be no further updates. However, it is widely used and currently the only complete choice for networking.

Tabby is copyrighted by Michael Connick.

Tabby is available from:
> M. E. Connick & Co.
> P.O. Box 307
> Bradley Beach, NJ 07720

Cost is $80.00 US

The Tabby support BBS can be reached at 908-988-0706, but don't call late at night because the BBS is not open for users then.

Tabby is a Macintosh program that provides a generic interface for BBS authors to allow access to FidoNet, a national network of bulletin board systems. To turn on the Hermes II-Tabby interface, go to System Prefs:Options and click on the Tabby Aware box.

One very important thing to remember about Hermes II is that it does not require import and export programs. Remove these from any listing in the Tabby manual. Hermes II handles these operations by itself and does them much faster than other programs.

How to specify subboard numbers for Tabby:

Each echo you receive through Tabby will require a number to be used between Hermes II and Tabby to specify exactly which directory that is. Since Hermes II does not use linear message bases, you will have to calculate this number. It is fairly simple.
Forum 1 subs 1 - 30 correspond to Tabby categories 1 - 30.
Forum 2 subs 1 - 30 correspond to Tabby categories 31 - 60.
Forum 3 subs 1 - 30 correspond to Tabby categories 61 - 90.
The same routine continues through all 10 possible forum.

So if you wanted a message to go into sub 2 of Forum 2, the number for the Tabby category would be 32.

To send E-Mail to someone on the Fido network, just use the E command to send E-Mail as you normally would. Then enter the name normally, but after the name add a comma, a space, then the net/node numbers as in the example below. Hermes II will recognize this as a network address and send the E-Mail out when Tabby is next executed.

"BILL CLINTON, 132/001"

To post on an echo conference, just do it as you normally would. As sysop, you should let your users know by some convention in the title of your message sub echo conference that this is a networked sub. Perhaps adding "<NETWORK>" to the title of the sub will be adequate.

In networked message subs Hermes II creates a duplicate message that is put in the Generic Export folder. Therefore to delete a message from the BBS and keep it from being sent out to the network, you must remove the duplicate from the Generic Export file. Just deleting the message from your BBS does nothing to delete the outgoing network message.

The method of specifying launch time is this: Tabby creates a file called "Next Event" in the same folder as the Hermes II application. If Tabby support is on, Hermes II will look for this file when it boots and examine it. The format of this file is as follows: HHMMHHMM H=Hour(military time) M=Minute

The first hour and minute group is the time of next Tabby event, and the second is the next ending time for the next event. If you are using an external application different from Tabby, you should also create this file. It can be created in a simple text editor.

To specify that a certain sub is an echo conference, you must specify this in "Board Edit" by selecting "Echo Conference". If this is not on and a message is sent to a certain sub, Hermes II will dispose of the message.

Sub-launch Tabby: This feature requires a program on the support BBS called Hermes II Recall 2.0 available to registered users. It allows you to continue running your other nodes while one node receives mail from the Tabby network.

Appendix B - Modem Drivers

Writing a Modem Driver

The most common problem in setting up Hermes II is understanding modem control. It is wise to use a well-respected and reliable modem. "Off-brand" or inferior modems will invariably cause problems in connecting with the wide variety of modems calling your BBS. You can purchase quality modems from Computer Classifieds while on the Support BBS. You must use a custom Hermes II BBS cable as detailed in this manual.

Writing a modem driver for Hermes II is not difficult if you carefully read the following instructions and consult your modem manual. Before you write your own driver, check the Hermes II Support BBS to see if the needed driver is online. If one is not available, the following information will help you in writing a driver for any type modem. Once you finish your driver, select "Export" in Node Prefs and make a copy for uploading to the Support BBS for others to use.

First, look at some of the included modem drivers by double-clicking on them in the Node Prefs menu. The driver editor has segmented the initialization string into more easily written parts. When you are ready to write your driver, select "New" in Node Prefs. The following describes what should be put in each line of the modem driver editor.

For each section, the following numbers 1-4 show the following:

1. What the line does.
2. When it is required to be filled in.
3. What you should put in the line.
4. Additional information and settings.

DRIVER NAME:

1. This lists the name of the driver in Node Prefs.
2. All drivers must be named.
3. Put the exact modem type(s) supported.
4. The name is limited to 19 characters maximum.

BBS INITIALIZE:

1. This line is the "basic" initialization string. It is sent to the modem each time the "Waiting" command
     is shown on the node (startup, user hangup, OK in Node Prefs, carriage return with that node selected).
2. It must be filled in for all modems.
3. Hermes II automatically sets the following basic string that most modems will need. High speed modems
     may need additional commands for their unique operation, but these basic settings are needed for all
     modems.

ATS0=0Q0V0E0M0S2=1X1

AT   Attention (only needed on Terminal and BBS Initialize lines)
S0=0   Disables auto answer
Q0   Result codes displayed
V0   Return "numeric" result codes
E0   Local Echo off
M0   Speaker off (optional)
S2=1   Sets ASCII escape code used by Hermes II
X1   Sets result code options

4. One of the two "handshake" lines is appended to this basic initialization string. One of the two "speed"
     lines is also appended. Modem drivers should assume that you are starting with a modem at its
     factory default settings. You can reset (and write to NRAM) factory defaults by typing AT&F&W
     <carriage return> from any terminal.

TERMINAL INITIALIZE:

1. This line is sent when you select the Terminal mode in Hermes II to call from the Hermes II terminal.
2. It is needed in order for you to call from the Hermes II terminal. You will need to call from the Hermes II
     terminal to register your copy.
3. The default string is:

ATV1E1S2=43M1S11=50

AT   Attention (only needed on Terminal and BBS Initialize lines)
V1   Return "Verbal" result codes
E1   Local Echo on
S2=43 Sets ASCII escape code to +
M1   Speaker on
S11=50 Sets dialing speed (optional)

4. This should work for the majority of modems. If your modem needs any special settings to call out,   you
should modify this line.

HARDWARE HS ON:

1. This line is added to the BBS Initialize string IF you have the "Hardware Handshake" box checked in Node Prefs.
2. You must complete this line only for modems that use flow control. Virtually all modems that operate at a speed higher than 2400 baud use flow control and virtually no 2400 baud modem does.
3. This line should have the RTS/CTS (hardware handshake) flow control settings. These settings are different for each modem type. Check your modem manual to see the commands to enable RTS/CTS flow control in both receive and transmit modes.
4. For most modems you should also add &D0. This is the setting that will set "DTR Override" (DTR always on) so that when flow control cycles, your modem will not disconnect. With Hermes II, RTS/CTS flow control can be used ONLY on Mac CPUs that have GPI pin 7 support.

HARDWARE HS OFF:

1. This line is added to the BBS Initialize string IF you have the "Hardware Handshake" box checked in Node Prefs.
2. You must complete this line only for modems that use flow control. Virtually all modems that operate at a speed higher than 2400 baud use flow control and virtually no 2400 baud modem does.
3. This line should have XON/OFF (software) flow control settings in both receive and send modes. These settings are different for each modem type. Check your modem manual for the commands to enable XON/XOFF flow control in both receive and transmit modes.
4. For most modems you should also add &C1&D2. This will allow Hermes II to properly hang up when the connection is broken without proper logoff from the BBS. XON/XOFF flow control will work on ALL Mac CPUs.

ANSWER MODEM:

1. This line is the command sent to tell the modem to answer the phone.
2. It is required with all drivers.
3. Hermes II default setting is ATA and is used by most all modems.

LOCK SPEED:

Terminology...DTE = Data Terminal Equipment (your CPU)
        DCE = Data Communications Equipment (your modem)

1. This line is appended to the BBS Initialize string IF you have the Hermes II Node Prefs "Change Speed" box unchecked.
2. This line is needed only for modems that support "port speed locking". Virtually all high speed modems support this. For 2400 baud modems this line should be left blank.
3. Set the command that will "fix" or "lock" the DTE-DCE rate.
4. Most manuals refer to this as a "fixed or "locked" DTE-DCE (CPU to modem) rate". With a locked DTE-DCE rate, your CPU will transfer data to/from your modem at the "Max Baud" speed set in Node Prefs. A locked DTE-DCE is used with high speed modems to maximize throughput. Flow control will then manage the difference between the DTE-DCE and DCE-DCE speeds.

VARIABLE SPEED:

1. This line is appended to the BBS Initialize string IF you have the Hermes II Node Prefs "Change Speed"   box checked.
2. This line is needed only for modems that support "port speed locking". Virtually all high speed modems
     support this. For 2400 baud modems this line should be left blank.
3. Set the command that will allow the "DTE-DCE rate to follow the DCE-DCE (modem connect) rate".
4. Some modems will not connect at their highest speeds with this option enabled. For 2400 baud modems
     this should be left blank. With this option selected the modem will change its DTE-DCE speed to match
     the DCE-DCE (connect) speed.

RESULT CODES:

1. Enter ALL the result codes and associated information.

   a. Numeric result code
   b. DTE-DCE rate when "Variable Speed" is selected
   c. Estimated transfer speed in bps
   d. The verbose result code

2. These must be included for ALL result codes of the modem.
3. Enter the codes in the following manner:

   a. Click on the "New" Button.
   b. Enter/edit the numeric result code (from your modem manual)
   c. Enter the port speed for variable speed operations (300, 1200, 2400, 9600, 19200)
   d. Enter the effective speed (enter approximately 95% of port speed)
   e. Enter the verbose result code (from your modem manual)
   f. Click on "New" to select a new result code to enter/edit
   g. Click on OK when finished.

4. The numeric codes should be found in your modem manual under "Result Codes" or similar heading.
     Clicking on "New" will give you the default settings for 300 baud; just edit them and click on "New" again
     to save and get another set to edit. The Effective speed is an estimate of the actual throughput (in bps)
     for that result code. It is approximately 96% of the Port rate for most connections, but does vary with   some
high speed modulations. (14400 HST or v.32bis = 16500 bps, 16800 HST = 1900 bps, PEP =   1450 bps, and
Super PEP = 20000 bps). Experience will allow you to further refine these numbers.   Hermes II uses these
numbers to estimate the time a download will take. The verbose result code is
     shown in the log and the User Edit menu for last logon speed.

Appendix C - Registration

Hermes II Registration Form

Please send this completed form with your registration.

After your payment is received, you must call Olympus, the Hermes II Support BBS at 206-643-2874 and have your serial number entered in your BBS.

Name:

Company:

Address:

City, State, Zip:

Voice Phone Number:

BBS Phone Number:

Support BBS User #:

What computer and modem(s) do you use with Hermes II?

Are you using the required custom BBS modem cables?

Please feel free to write any other comments below.

Appendix D - BBS Hardware

Computer Classifieds BBS Hardware Sales

Computer Classifieds sells all the Macintosh hardware necessary for BBS operations. These can be ordered online at Olympus or by sending in the included order form. Leave Feedback with all information in "Order Form" or select and capture the order form in the G-Files and send your order and billing information to:

Computer Classifieds
12819 SE 38th #101
Bellevue, WA 98006
206-643-2316 (Hermes II advice unavailable on this number)

The following is a list of some popular BBS inems and their costs at the time of the release of Hermes II II. Prices may vary, so check Olympus for the latest prices. Computer Classifieds also sells a full line of Macintosh computers, hard drives, memory and peripherals at attractive prices. Computer Classifieds offers custom BBS setup services that include finished, ready to run systems.

ITEM	PRICE	GROUND SHIPPING	AIR SHIPPING
Hermes II Cable ID#1	$ 20	$4	$12
Hermes II Cable ID#3	$ 20	$4	$12
US Robotics Sportster Modem	$195	$12	$20
US Robotics Sportster Fax Modem	$238	$12	$20
CSI Multiport Serial Card	$330	$12	$20

WHY DO YOU NEED THE CUSTOM HERMES II MODEM CABLE?

The custom Hermes II cable is required in order to BOTH monitor carrier state AND manage flow control. A BBS must detect whether a user continues to be online. Without this ability, if the connection is broken the BBS will not reset the node since it would think the user is still online. If the user was not transferring, the inactivity timer will eventually log the user off, but if the user was transferring, the node may never reset until it is done manually. Additionally, a standard cable will not work at all for RTS/CTS (hardware handshake) flow control. Experience has shown that many cables do not have proper pinouts, and/or are of inferior quality.

HERMES II CUSTOM CABLE ID#1

1. This cable works on the Mac Plus and newer Macs. (Mini din 8 connector)
2. It can be used with either no flow control or XON/XOFF flow control.
3. Select "DTR Hangup" and "CTS Pin 5" in Hermes II Node Prefs.

HERMES II CUSTOM CABLE ID#3

1. This cable works on most Macs. It does not work on Macs that utilize the Apple Combo Chip for serial communications because this chip does not have GPI capability. The Macintosh models affected are:

  Classic, Classic II, Color Classic
  Macintosh LC, LC II, LC III,
  Performa 200, 400, 405, 430, 450, 600
  Macintosh IIsi
  Macintosh IIvx, IIvi

2. This cable must be used with RTS/CTS (hardware handshake) flow control. Your modem must also support RTS/CTS flow control.
3. Select "Hardware Handshake" and "DCD Pin 7/Chip" in Hermes II Node Prefs.

Extensive testing has shown no operational differences between XON/XOFF flow control and RTS/CTS flow control. The escaping method used by cable ID#1 resets the node much quicker, and is recommended for multi-node systems.

US ROBOTICS SPORTSTER MODEM...$195

Supports v.32bis (14400 baud) and lower. Uses same chipset as the more expensive USR Courier line of modems. Small size - 5 year warranty.

US ROBOTICS SPORTSTER FAX/MODEM...$238

Same as above except that it supports Group III send/receive fax. Fax STF software, a hardware handshake cable (not a custom Hermes II cable), and Microphone LT are included.

CREATIVE SOLUTIONS MULTIPORT SERIAL CARD...$330

This is a nubus card and will work on all Macs that have nubus capability
including the Centris 610 and 660AV that take the new small cards.

The CSI multiport serial card has 4 serial ports. It supports both XON/XOFF and RTS/CTS flow control and has GPI pin 7 support. Hermes II has been designed specifically to work with this card. You can use more than one card for additional serial ports.

-Computer Classifieds Order Form-

First & Last Name   _____

Company   _____

Street Address   _____

City, State & Zip   _____

Phone Number(s)   _____

Quantity	Item Description		Unit Price	Total Price
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	

		Shipping	_____
(8.2% for WA residents only)	Sales Tax	_____	
($5 for COD shipments)	COD	_____	
	Total	_____	

Master Card or Visa number:_____

Expiration date:_____ Signature:_____

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