# Detail Setup pcmcia Modem Cards

## Special Notices

Information in this document is correct to the best of our knowledge at the time of this writing. Please send feedback by fax to "AIXServ Information" at (512) 823-4009.

Please use this information with care. IBM will not be responsible for damages of any kind resulting from its use. The use of this information is the sole responsibility of the customer and depends on the customer's ability to evaluate and integrate this information into the customer's operational environment.

> **Note:** The information in this document has **not** been verified for AIX 4.1.

## About This Document

The following files are included in this mailing and should be separated upon saving:

1. Readme
2. attr.NEW.IBM
3. attr.NEW.MHz
4. modem28

**IMPORTANT NOTE**: Make a copy of the following odm database files before running the scripts:

```
/etc/objrepos/PdAt
/etc/objrepos/PdCn
/etc/objrepos/PdDv
```

## The Readme File

```
#####################################################
 "modem 28" script configures IBM or MegaHertz PCMCIA
 cards. It installs and configures the necessary
 drivers, creates an entry in ODM.
 Date Written 3-13-96
 IBM PC Compnay HelpCenter
 3039 Cornwallis Road
 RTP, NC 27709
#####################################################
```

To be able to run this script:

1. Make sure that you have an AIX 4.1.4 CDROM
2. Your Operating System is at 4.1.4
3. You have root priviledges on the machine
4. Create a modem directory in your /tmp filesystem

   ```
   mkdir -p /tmp/modem
   ```

5. Make sure that you have 3 files in this direcotory.
6. ie: In /tmp/modem you should have the following files:
   - attr.NEW.IBM
   - attr.NEW.MHz
   - modem28
7. ensure that the modem28 file has execute permission

   ```
   chmod 744 modem28
   ```

## THE attr.NEW.IBM File

```
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "bus_io_addr"
deflt = "0x3f8"
values = "0x2f8,0x3f8,0x2e8,0x3e8"
width = "0x08"
type = "O"
generic = "D"
rep = "nl"
nls_index = 3
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "modem_type"
deflt = "1"
values = "1"
width = ""
type = "R"
generic = ""
rep = "nl"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "bus_intr_lvl"
deflt = "9"
values = "5,7,9,11"
width = ""
```

```
type = "I"
generic = "D"
rep = "nl"
nls_index = 5
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "intr_priority"
deflt = "2"
values = "1,2"
width = ""
type = "P"
generic = "D"
rep = "nl"
nls_index = 6
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "frequency"
deflt = "115200"
values = "115200"
width = ""
type = "R"
generic = ""
rep = "nl"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "driver"
deflt = "pcrsdd"
values = "pcrsdd"
width = ""
```

```
type = "R"
generic = ""
rep = "sl"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "pcmcia_devid"
deflt = "2002,0xa4003900"
values = ""
width = ""
type = "R"
generic = ""
rep = "s"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "pm_dev_att"
deflt = "0x00600000"
values = "0x00600000"
width = ""
type = "R"
generic = ""
rep = "n"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "pm_dev_itime"
deflt = "0"
values = "0"
width = ""
type = "R"
generic = ""
rep = "n"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "pm_dev_stime"
deflt = "0"
values = "0"
width = ""
type = "R"
generic = ""
rep = "n"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "load_module"
deflt = "/usr/lib/methods/isaload"
```

```
values = "/usr/lib/methods/isaload"
width = ""
type = "E"
generic = ""
rep = "sl"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "rtrig"
deflt = "3"
values = "0-3,1"
width = ""
type = "E"
generic = "DU"
rep = "nr"
nls_index = 11
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "tbc16"
deflt = "16"
values = "1-16,1"
width = ""
type = "E"
generic = "DU"
rep = "nr"
nls_index = 10
PdAt:
uniquetype = "adapter/pcmcia/a4003900"
attribute = "speed"
deflt = "9600"
values = "0,50,75,110,134,150,200,300,600,1200,1800,2400,4800,9600,19200,38400"
width = ""
type = "E"
generic = "DU"
rep = "slm"
nls_index = 12
PdCn:
uniquetype = "adapter/pcmcia/a4003900"
connkey = "rs232"
connwhere = "s"
PdDv:
type = "a4003900"
class = "adapter"
subclass = "pcmcia"
prefix = "sa"
devid = ""
base = 0
has_vpd = 0
detectable = 1
chgstatus = 0
bus_ext = 0
fru = 2
```

```
led = 2086
setno = 151
msgno = 2
catalog = "devices.cat"
DvDr = "pcmcia/pcrsdd"
Define = "/usr/lib/methods/define_rspc"
Configure = "/usr/lib/methods/cfgpcasync"
Change = "/usr/lib/methods/chggen_rspc"
Unconfigure = "/usr/lib/methods/ucfgpcasync"
Undefine = "/usr/lib/methods/undefine"
Start = ""
Stop = ""
inventory_only = 0
uniquetype = "adapter/pcmcia/a4003900"
```

## THE attr.NEW.MHz FILE

```
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "bus_io_addr"
deflt = "0x3f8"
values = "0x2f8,0x3f8,0x2e8,0x3e8"
width = "0x08"
type = "O"
generic = "D"
rep = "nl"
nls_index = 3
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "modem_type"
deflt = "1"
values = "1"
width = ""
type = "R"
generic = ""
rep = "nl"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "bus_intr_lvl"
deflt = "9"
values = "5,7,9,11"
width = ""
type = "I"
generic = "D"
rep = "nl"
nls_index = 5
PdAt:
uniquetype = "adapter/pcmcia/02010000"
```

```
attribute = "intr_priority"
deflt = "2"
values = "1,2"
width = ""
type = "P"
generic = "D"
rep = "nl"
nls_index = 6
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "frequency"
deflt = "115200"
values = "115200"
width = ""
type = "R"
generic = ""
rep = "nl"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "driver"
deflt = "pcrsdd"
values = "pcrsdd"
width = ""
type = "R"
generic = ""
rep = "sl"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "pcmcia_devid"
deflt = "2002,0x02010000"
values = ""
width = ""
type = "R"
generic = ""
rep = "s"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "pm_dev_att"
deflt = "0x00600000"
values = "0x00600000"
width = ""
type = "R"
generic = ""
rep = "n"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "pm_dev_itime"
deflt = "0"
```

```
values = "0"
width = ""
type = "R"
generic = ""
rep = "n"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/02010000"
```

```
attribute = "pm_dev_stime"
deflt = "0"
values = "0"
width = ""
type = "R"
generic = ""
rep = "n"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "load_module"
deflt = "/usr/lib/methods/isaload"
values = "/usr/lib/methods/isaload"
width = ""
type = "E"
generic = ""
rep = "sl"
nls_index = 0
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "rtrig"
deflt = "3"
values = "0-3,1"
width = ""
type = "E"
generic = "DU"
rep = "nr"
nls_index = 11
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "tbc16"
deflt = "16"
values = "1-16,1"
width = ""
type = "E"
generic = "DU"
rep = "nr"
nls_index = 10
PdAt:
uniquetype = "adapter/pcmcia/02010000"
attribute = "speed"
deflt = "9600"
values = "0,50,75,110,134,150,200,300,600,1200,1800,2400,4800,9600,19200,38400"
width = ""
type = "E"
generic = "DU"
rep = "slm"
nls_index = 12
PdCn:
uniquetype = "adapter/pcmcia/02010000"
connkey = "rs232"
```

```
connwhere = "s"
PdDv:
type = "02010000"
class = "adapter"
subclass = "pcmcia"
prefix = "sa"
devid = ""
base = 0
has_vpd = 0
detectable = 1
chgstatus = 0
bus_ext = 0
fru = 2
led = 2086
setno = 151
msgno = 2
catalog = "devices.cat"
DvDr = "pcmcia/pcrsdd"
Define = "/usr/lib/methods/define_rspc"
Configure = "/usr/lib/methods/cfgpcasync"
Change = "/usr/lib/methods/chggen_rspc"
Unconfigure = "/usr/lib/methods/ucfgpcasync"
Undefine = "/usr/lib/methods/undefine"
Start = ""
Stop = ""
inventory_only = 0
uniquetype = "adapter/pcmcia/02010000"
```

## THE modem28 FILE

```
#!/usr/bin/ksh
# ############################################################
# This is script configures an IBM or MegaHertz PCMCIA cards.
# Also, this script is specific to ONLY 28.8 Data/Fax cards.
# Reason for this is that each PCMCIA card is hardwired with
# a unique Manufacturer ID. This script, for the most part,
# would install (if already not installed) the device driver
# from the AIX 4.1.4 CD. It then attemps to configure the
# PCMCIA card.
############################################################
############################################################
# Requirement to run this script:
# 1) HAVE AIX 4.1.4 CDROM
# 2) HAVE THE ROOT PRIVILEDGES
# 3) Have either IBM or MegaHertz PC card
############################################################
############################################################
# Script courtesy of the PC Company HelpCeter, RTP, NC
# Script Created: March 13, 1996
```

```
############################################################
USER= whoami
OS= oslevel
ODMSUCCESSFUL=FALSE
if [ "$USER" != "root" ] || [ "$OS" != "4.1.4.0" ]
then
clear
echo 'Cannot run this script!!'
echo "Either you are NOT logged in as root OR"
echo "You are at an earlier level of AIX then 4.1.4"
echo "Exiting..."
exit 1
fi
/usr/bin/clear
function header {
echo "        +=========================================+"
echo "        |       IBM PC COMPANY HELPCENTER         |"
echo "        | This script configures an UNSUPPORTED   |"
echo "        |    IBM PCMCIA 28.8(V.34)/14.4 Kbs       |"
echo "        |      Data/FAX Modem                     |"
echo "        |          Part Number: 25H6420           |"
echo "        |                  OR                     |"
echo "        |     MegaHertz 28.8/14.4kbps Data/Fax    |"
echo "        |             on AIX 4.1.4.0              |"
echo "        +=========================================+"
}; header
echo "======================================================"
echo "Please use this script with the following understanding:"
echo "IBM WILL NOT BE RESPONSIBLE FOR DAMAGES OF ANY KIND"
echo "RESULTING FROM ITS USE. THE USE OF THIS INFORMATION"
echo "IS THE SOLE RESPONSIBILITY OF THE CUSTOMER AND DEPENDS"
echo "ON THE CUSTOMER'S ABILITY TO EVALUATE AND INTEGRATE"
echo "THIS SCRIPT INTO THE CUSTOMER'S OPERATIONAL ENVIRONNMENT"
echo ""
echo "======================================================"
echo "This script has been tested with ONLY IBM & Megahertz"
echo "28.8 PCMCIA cards.  During the test, configuration of"
echo "The above PC cards were successful.  This, however, doesn't"
echo "imply any implicit or explicit guarentee that the cards"
echo "would configure in all the possible environments."
echo ""
echo "======================================================"
echo "Continue with modem config./install. (y/n)? \c"
read ANSWER
if [ "$ANSWER" = "y" ] || [ "$ANSWER" = "Y" ]
then
echo ""
echo "1) Make sure that AIX 4.1.4 CDROM is in the Drive."
echo "2) Make sure that PCMCIA (28.8) Card is in the Slot."
echo "Press >>>>CONTROL+C<<<< to exit script if the above"
echo "device and the media"
```

```
echo "is not already in the machine."
fi
if [ "$ANSWER" = "y" ] || [ "$ANSWER" = "Y" ]
then
# the following two lines should read as one
if [ ! -f /tmp/modem/attr.NEW.IBM ] || [
! -f /tmp/modem/attr.NEW.MHz ]
then
echo "Error in finding script library files."
echo "Exiting script without any confiuguration."
exit 1
fi
echo "Enter What Modem Type You are using,"
echo "IBM or MHz.(ibm/mhz) Modem Type? \c"
read MODEMTYPE
# the following two lines should appear on one line.
if [ "$MODEMTYPE" != "ibm" ] && [ "$MODEMTYPE"
!= "mhz" ]
then
echo "Error. Incorrect Modem Type Entered."
echo "Exiting..."
exit 1
else
echo ""
echo "MAKE SURE THAT THE "
echo "1) MODEM IS IN THE PCMCIA SLOT."
echo "2) MODEM IS INSERTED PROPERLY."
echo 'PRESS >>>control+C<<< if the card is NOT already'
echo "in the slot and then Re-Run this script."
echo "Sleeping for 7 seconds..."
sleep 7
fi
fi
if [ "$ANSWER" = "y" ] || [ "$ANSWER" = "Y" ]
then
clear
header
echo ""
echo "==================================="
echo "Check, Verify Device Driver Routine."
echo "==================================="
if [ -d /usr/lpp/devices.pcmcia.a4001d00 ]
then
echo "You already have the Needed Modem Driver Installed."
echo "Now all we have to do is to configure it."
echo "Sleeping for 10 seconds..."
sleep 10
else
echo "Modem Device Driver NOT installed."
echo "Ensure that AIX 4.1.4 CDROM is in the CDROM Drive."
```

```
echo "Waiting for 10 seconds..."
sleep 10
echo "Driver Installation Initiated."
/usr/lib/instl/sm_inst installp_cmd -T iems -L -q -a -d
# the following two lines should read as one.
'/dev/cd0' -o '4.1.3.0 devices.pcmcia.a4001d00
ALL @@devices.pcmcia.a40 01d00' '-c' '-N' '-g' '-X'  '-G'
sleep 10
if [ $? = 0 ]
then
echo "Installation Complete and Successful.."
echo  "Sleeping for 10 secs..."
sleep 10
else
echo "Installation Encountered a Problem.."
echo "Sleeping for 5 seconds..."
sleep 5
echo "Aborting..."
exit 1
fi
fi
echo ""
clear
header
echo ""
echo "==================================="
echo " RETRIEVE Device Attribute Routine. "
echo "==================================="
echo ""
echo "Next, device attribute for a4002900 will be RETRIEVED."
echo ""
echo "Saving Original Device Attributes to /tmp/attrs.ORIG"
echo ""
/usr/bin/odmget -q "uniquetype=adapter/pcmcia/a4001d00" PdAt > /tmp/attrs.ORIG
/usr/bin/odmget -q "uniquetype=adapter/pcmcia/a4001d00" PdCn >> /tmp/attrs.ORIG
/usr/bin/odmget -q "uniquetype=adapter/pcmcia/a4001d00" PdDv >> /tmp/attrs.ORIG
DATA= /usr/bin/du -a /tmp/attrs.ORIG | awk '{print $1}'
if [ "$DATA" = 0 ]
then
echo "There were no attributes defined in the"
echo "ODM for the device."
else
echo "There were no attributes defined in the"
echo "ODM for the device."
fi
echo "The value of ODM DATA is $DATA "
echo "Retrieval Done..."
echo "Sleeping for 10 seconds."
sleep 10
clear
header
echo ""
```

```
echo "==================================="
echo "  DELETE Device Attribute Routine.  "
echo "==================================="
echo ""
echo "Next, device attribute for a4002900 will be DELTED
from ODM."
echo ""
/usr/bin/odmdelete -q "uniquetype=adapter/pcmcia/a4001d00" -o PdAt
```

```
/usr/bin/odmdelete -q "uniquetype=adapter/pcmcia/a4001d00" -o PdAt
/usr/bin/odmdelete -q "uniquetype=adapter/pcmcia/a4001d00" -o PdAt
echo ""
echo "Done deleting all the attributes from the ODM database."
echo "Sleeping for 10 seconds..."
sleep 10
clear
header
echo ""
echo "==================================="
echo " ReGenerate Device Attribute in ODM "
echo "==================================="
echo "Earlier you had selected your MODEM TYPE to be: $MODEMTYPE"
echo "Now Creating an ODM entry for $MODEMTYPE modem."
if [ "$MODEMTYPE" = "ibm" ]
then
/usr/bin/odmadd /tmp/modem/attr.NEW.IBM
if [ $? = 0 ]
then
echo "ODM Entry Successful."
ODMSUCCESSFUL=TRUE
sleep 6
else
echo "Error in Creating Entry in ODM."
echo "Critical Error."
if [ "$DATA" != 0 ]
then
echo "Now restoring back the original odm information.."
echo "Please wait..."
sleep 7
/usr/bin/odmadd /tmp/attrs.ORIG
if [ $? = 0 ]
then
rm -f /tmp/attrs.ORIG
fi
sleep
fi
echo "Aboring script"
exit 1
fi
fi
if [ "$MODEMTYPE" = "mhz" ]
then
/usr/bin/odmadd /tmp/modem/attr.NEW.MHz
if [ $? = 0 ]
then
echo "Entry Successful."
ODMSUCCESSFUL=TRUE
sleep 6
```

```
else
echo "Error in Creating Entry in ODM."
echo "Critical Error."
echo "Aboring script"
exit 1
fi
fi
echo ""
if [ "$ODMSUCCESSFUL" = "TRUE" ]
then
echo "Since the ODM entry was successful..the script"
echo "will now attempt to see if the Operating System Will"
echo "recognize the PCMCIA card.."
/usr/sbin/cfgmgr
if [ $? = 0 ]
then
CARD= lscfg|grep -i modem| awk '{print $4,$5,$6,$7,$8}'
echo ""
echo "========================================="
echo '           Congratulations!!!!             '
echo ""
echo "Looks like the confiuration was successful."
echo ""
echo "Card: $CARD."
echo "========================================="
sleep 5
else
echo "AIX, for some odd reason was not able to recognize"
echo "you PCMCIA Card."
fi
fi
echo "All done..."
echo "Modem driver has been Installed and Configured."
echo ""
echo "NOTES:"
echo "During the initialization and configuration of your modem,"
echo "some device attributes files were saved to the temporary"
echo "directory. In most cases you will NOT need these files,"
echo "unless you know that you have a specific/known reason to"
echo "save them."
echo "Do you want to DELETE these files? (y/n)\c"
read ANSWER2
if [ "$ANSWER2" = "y" ] || [ "$ANSWER2" = "Y" [
then
echo "Deleting Original Configuration files."
/usr/bin/rm -f /tmp/attrs.ORIG
echo "Deleted files."
echo "ALL DONE."
fi
else
echo "You selected NOT to run this configuration for the answer..."
echo "Script Aborting...."
```

```
fi
# ********************** END OF SCRIPT **********************
```

# Reader's Comments

Please fax this form to (512) 823-4009, attention "AIXServ Information". You may also e-mail comments to: elizabet@austin.ibm.com. These comments should include the same customer information requested below.

Use this form to tell us what you think about this document. If you have found errors in it, or if you want to express your opinion about it (such as organization, subject matter, appearance) or make suggestions for improvement, this is the form to use.

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**Note:** If you have a problem report or item number, supplying that number may help us determine why a procedure did or did not work in your specific situation.

Problem Report or Item #: Branch Office or Customer #:

Be sure to print your name and fax number below if you would like a reply:

Name: Fax Number:

END OF DOCUMENT (pcmcia.zap, 4FAX #5735)

DSMLBR529E 'KP' WOULD EXCEED MAXIMUM SIZE.
DSMMOM395I 'PCMCISUB' LINE 215: setno = 151
DSMMOM397I 'PCMCISUB' WAS IMBEDDED AT LINE 690 OF '.EDFIM'
DSMMOM397I '.EDFIM' WAS IMBEDDED AT LINE 10 OF '.IM'
DSMMOM397I '.IM' WAS IMBEDDED AT LINE 13 OF 'PCMCI'
DSMLBR529E 'KP' WOULD EXCEED MAXIMUM SIZE.
DSMMOM395I 'PCMCISUB' LINE 320: width = ""
DSMMOM397I 'PCMCISUB' WAS IMBEDDED AT LINE 690 OF '.EDFIM'
DSMMOM397I '.EDFIM' WAS IMBEDDED AT LINE 10 OF '.IM'
DSMMOM397I '.IM' WAS IMBEDDED AT LINE 13 OF 'PCMCI'
DSMLBR529E 'KP' WOULD EXCEED MAXIMUM SIZE.
DSMMOM395I 'PCMCISUB' LINE 591: echo "  DELETE Device Attribute Routine.  "
DSMMOM397I 'PCMCISUB' WAS IMBEDDED AT LINE 690 OF '.EDFIM'
DSMMOM397I '.EDFIM' WAS IMBEDDED AT LINE 10 OF '.IM'
DSMMOM397I '.IM' WAS IMBEDDED AT LINE 13 OF 'PCMCI'
DSMLBR529E 'KP' WOULD EXCEED MAXIMUM SIZE.
DSMMOM395I 'PCMCISUB' LINE 704: # ********** END OF SCRIPT **********
**********
DSMMOM397I 'PCMCISUB' WAS IMBEDDED AT LINE 690 OF '.EDFIM'
DSMMOM397I '.EDFIM' WAS IMBEDDED AT LINE 10 OF '.IM'
DSMMOM397I '.IM' WAS IMBEDDED AT LINE 13 OF 'PCMCI'
DSMBEG323I STARTING PASS 2 OF 2.
DSMLBR529E 'KP' WOULD EXCEED MAXIMUM SIZE.
DSMMOM395I 'PCMCISUB' LINE 215: setno = 151
DSMMOM397I 'PCMCISUB' WAS IMBEDDED AT LINE 690 OF '.EDFIM'
DSMMOM397I '.EDFIM' WAS IMBEDDED AT LINE 10 OF '.IM'
DSMMOM397I '.IM' WAS IMBEDDED AT LINE 13 OF 'PCMCI'
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DSMMOM395I 'PCMCISUB' LINE 320: width = ""
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DSMMOM397I '.EDFIM' WAS IMBEDDED AT LINE 10 OF '.IM'
DSMMOM397I '.IM' WAS IMBEDDED AT LINE 13 OF 'PCMCI'
DSMLBR529E 'KP' WOULD EXCEED MAXIMUM SIZE.
DSMMOM395I 'PCMCISUB' LINE 591: echo "  DELETE Device Attribute Routine.  "
DSMMOM397I 'PCMCISUB' WAS IMBEDDED AT LINE 690 OF '.EDFIM'
DSMMOM397I '.EDFIM' WAS IMBEDDED AT LINE 10 OF '.IM'
DSMMOM397I '.IM' WAS IMBEDDED AT LINE 13 OF 'PCMCI'
DSMLBR529E 'KP' WOULD EXCEED MAXIMUM SIZE.
DSMMOM395I 'PCMCISUB' LINE 704: # ********** END OF SCRIPT **********
**********
DSMMOM397I 'PCMCISUB' WAS IMBEDDED AT LINE 690 OF '.EDFIM'
DSMMOM397I '.EDFIM' WAS IMBEDDED AT LINE 10 OF '.IM'
DSMMOM397I '.IM' WAS IMBEDDED AT LINE 13 OF 'PCMCI'