

Emailing IOF Panels in Html Format

This article shows you how to:

- Capture all of the rows and columns of a large IOF list panel
- Capture to a sysout data set, disk data set, or HFS file
- Email a captured panel in html format
- Create a simple exec to automate emailing IOF panels

By default, the CAPTURE command will capture only the currently displayed rows and columns of the current panel. But CAPTURE ALL will capture all of the rows and all of the columns that you could scroll to see on the panel. For example, you can see that the Job List below contains 132 jobs.

```

----- IOF Job List Menu ----- ( 132 )-----
COMMAND ==> capture all                               SCROLL ==> CURSOR
----- Output Jobs -----
-----JOBNAME--JOBID--ACT-STAT-OWNER---DEST/DEVICE-----RECS-HELD-DAY--TIME
_   1 $$TEST   J879408                JBLARG  TRISYS           123    030 15:17
_   2 APPLERRS J839616                JBLARG  FETCH            4687   337 16:40
_   3 APPLERRS J886171                JBLARG  TRISYS.$8K      4728   116 15:20
_   4 APPLERRS J887730                JBLARG  TRISYS.$8L      4728   134 12:27
_   5 ARCFAIL1 J845586                8 JBLARG  TRISYS           176    067 12:56
_   6 ARCFAIL2 J845587                8 JBLARG  TRISYS           127    067 12:57
_   7 ARRANGE  J890357                JBLARG  FETCH            2582   165 12:52
_   8 ATTRSERV J886493                JBLARG  TRISYS.$8K      5744   120 15:26
_   9 ATTRSERV J889506                JBLARG  FETCH            5744   154 13:07
_  10 AVT1IOF  J829137                JBLARG  FETCH            1078   157 18:07
_  11 BATCHTSO J844450                4 JBLARG  TRISYS           91     050 16:11
_  12 BROWZE   J886166                JBLARG  TRISYS.$8K     3781   116 13:46
  
```

If we enter the **CAPTURE ALL** command we see the capture prompt panel:

```

----- Select SNAP Target for CAPTURE -----
COMMAND ==> 2

You have asked to capture the current screen, which will be written
to a snap target data set.

Where would you like to snap the screen image?

_   1 Sysout data set
_   2 Disk data set
_   3 HFS file system file

You can also use the SS, SD, or SU command to activate a snap
target before entering CAPTURE. The screen will be snapped to
that target and multiple screens can be captured to the same
target.
  
```

The CAPTURE command always copies the data to a SNAP target data set. This prompt panel allows you to direct the CAPTURE output to a sysout data set (SS target), a disk data set (SD target), or an HFS file system file (SU target).

We will enter “2” to display the SD prompt panel to capture the display into a disk data set.

```

----- IOF Snap Data Set Options -----
COMMAND ==>

  DSNAME          ==> capture.html          (overtyped from default of *****.IOFLIST)

  RECFM           ==> VB                   Record format          (overtyped from VBA default)
  LRECL           ==> 512                  Logical record length  (overtyped from 255 default)
  BLKSIZE         ==> 3600                 Block size
  CONVERT         ==>                     Convert to format (html)

  PRIMARY         ==> 20                   Primary allocation    (in tracks)
  SECONDARY       ==> 20                   Secondary allocation  (in tracks)
  UNIT            ==>                     Unit name
  VOLUME SER.    ==>                     Volume serial
  STORCLAS       ==>                     SMS storage class
  MGMTCLAS       ==>                     SMS management class
  DATACLAS      ==>                     SMS data class

  Special CC     ==>                     Special carriage control (HTML/ASCII)
  MOD (Y or N)   ==>                     Append data to end of existing data set
  PACK(Y or N)   ==>                     Pack data using ISPF method

  LABEL          ==>                     Tape data set label type
  DATASET NO.    ==>                     Tape data set sequence number

```

This display shows us overtyping the DSNAME field to **CAPTURE.HTML** and overtyping the default LRECL from 255 to **512** (since each Job List row has more than 255 display columns). We also overtype the RECFM field from to VBA to **VB** (since we don't want any inserted carriage control). We press ENTER on this panel to complete the CAPTURE process.

We can now split the screen and browse the target data set:

```

VIEW          JBLARG.CAPTURE.HTML          Columns 00001 00072
Command ==>                               Scroll ==> CSR
***** Top of Data *****
000001 ----- IOF Job List Menu ----- ( 132 )--
000002 COMMAND ==>                          SCROLL ==
000003 ----- Output Jobs -----
000004 -----JOBNAME--JOBID--ACT-STAT-OWNER---DEST/DEVICE-----RECS-HELD-D
000005  _   1 $$TEST   J879408           JBLARG  TRISYS           123     0
000006  _   2 APPLERRS J839616           JBLARG  FETCH             4687    3
000007  _   3 APPLERRS J886171           JBLARG  TRISYS.$8K        4728    1
000008  _   4 APPLERRS J887730           JBLARG  TRISYS.$8L        4728    1
000009  _   5 ARCFAIL1 J845586           8 JBLARG  TRISYS             176     0
000010  _   6 ARCFAIL2 J845587           8 JBLARG  TRISYS             127     0
000011  _   7 ARRANGE  J890357           JBLARG  FETCH             2582    1
000012  _   8 ATTRSERV J886493           JBLARG  TRISYS.$8K        5744    1
000013  _   9 ATTRSERV J889506           JBLARG  FETCH             5744    1
000014  _  10 AVT1IOF  J829137           JBLARG  FETCH             1078    1
000015  _  11 BATCHTSO J844450           4 JBLARG  TRISYS              91     0
000016  _  12 BROWZE   J886166           JBLARG  TRISYS.$8K        3781    1
000017  _  13 BRZCMD3  J832752           JBLARG  FETCH             4346    2
000018  _  14 BRZVARS  J828816           JBLARG  FETCH             1498    1
000019  _  15 BULK     J890163           8 JBLARG  TRISYS             138     1
000020  _  16 BULK     J890558           8 JBLARG  TRISYS             141     1
000021  _  17 BULK$    J890096           8 JBLARG  TRISYS             142     1

```

If we scroll to the right:

```

VIEW          JBLARG.CAPTURE.HTML                      Columns 00073 00144
Command ===>                                         Scroll ===> CSR
***** ***** Top of Data *****
000001 -----
000002 > CURSOR
000003 -----
000004 AY--TIME-PAGES-HELD---ALLOC--RLSE CLASS-SECLABEL-DEST-----RE
000005 30 15:17                                2                TRISYS
000006 37 16:40                                6                FETCH
000007 16 15:20                                11               TRISYS.$8K
000008 34 12:27                                11               TRISYS.$8L
000009 67 12:56                                1                TRISYS
000010 67 12:57                                1                TRISYS
000011 65 12:52                                6                FETCH
000012 20 15:26                                11               TRISYS.$8K
000013 54 13:07                                11               FETCH
000014 57 18:07                                2                FETCH
000015 50 16:11                                1                TRISYS
000016 16 13:46                                8                TRISYS.$8K
000017 19 14:28                                6                FETCH
000018 52 16:38                                3                FETCH
000019 63 10:33                                2                TRISYS
000020 67 11:51                                2                TRISYS
000021 62 16:02                                2                TRISYS

```

You can see that the captured data includes more columns than the original screen size. If we continued scrolling to the right we would see all of the fields available on the Job List.

If we enter LEFT MAX to return to the leftmost screen and then DOWN MAX:

```

VIEW          JBLARG.CAPTURE.HTML                      Columns 00001 00072
Command ===>                                         Scroll ===> CSR
000114 - 110 SPOOL10 J890550                JBLARG  FETCH          2484      1
000115 - 111 SPOOL10 J891058                JBLARG  FETCH          2484      1
000116 - 112 SPOOL10 J892153                JBLARG  FETCH          2484      1
000117 - 113 SPOOL3  J887291                JBLARG  TRISYS.$8K       3413      1
000118 - 114 SPOOL4  J886004                JBLARG  FETCH          3573      1
000119 - 115 STACK   J834437                JBLARG  TRISYS.IOF8C     1385      2
000120 - 116 STACK   J841336                JBLARG  TRISYS.IOF7J     1269      0
000121 - 117 STACK   J841389                JBLARG  TRISYS.IOF7H     1269      0
000122 - 118 STACK   J841394                JBLARG  TRISYS.IOF8A     1271      0
000123 - 119 STACK   J841396                JBLARG  TRISYS.IOF8B     1386      0
000124 - 120 STACK   J873557                JBLARG  TRISYS.IOF7F     1281      3
000125 - 121 STEFFUNC J886501                JBLARG  TRISYS.$8K       2714      1
000126 - 122 STEFFUNC J892154                JBLARG  FETCH          2716      1
000127 - 123 SYSCMDS J890788                JBLARG  FETCH          1607      1
000128 - 124 TRY      J880951                12 JBLARG  FETCH          105 1793  0
000129 - 125 TSOBATCH J890343                JBLARG  TRISYS          161       1
000130 - 126 ZAPIOF   J845821                JBLARG  TRISYS          59        0
000131 - 127 ZAPOPTOF J845823                JBLARG  TRISYS          59        0
000132 - 128 ZAPSPool J892847                8 JBLARG  FETCH          121 60 1
000133 - 129 ZAP8GK   J885750                JBLARG  FETCH          7 60 1
000134 - 130 ZAP8GK   J885858                JBLARG  FETCH          7 60 1
000135 - 131 ZAP8GK   J886035                JBLARG  FETCH          7 63 1
000136 - 132 ZDSPANEL J865345                JBLARG  FETCH          5233     1

```

You can see that the captured data set contains all 132 jobs on the job list.

So, we have captured the entire display panel and not just the fields that will fit on the current display screen. To email this captured panel in html format enter the IOFMAIL command on any IOF screen to display the IOF email interface panel.

```
----- Send Email Message -----  
COMMAND ==>  
  
  EMSG - Edit/compose with ISPF Edit      HELP - Learn about IOF mail  
  
  To ==> jblarg@bigcomapny.com  
  CC ==>  
  BCC ==>  
  From ==>  
  Subject ==> ** Will use default if attachment specified **  
  
Attachment:  
Data set ==> capture.html  
Format ==> html      txt/html/...  Convert? ==> yes      Zip? ==> NO  
Carriage ==> NONE      ASCII/ASA/NONE (map ASA/MCH CC for text attachments)  
PC file ==> ** Will use default if attachment specified **  
  
Message:  
Data set ==>  
Text ==> ** Will use default if attachment specified **  
  
Address list:  
Data set ==>
```

We have overtyped the following fields:

To:	jblarg@bigcompany.com	Destination for email
Data set:	capture.html	Data set to be emailed
Format:	html	Email in html format
Convert:	yes	Convert to html

Pressing ENTER on this panel will email the captured panel in html format. This is how it will appear in your inbox:

```
MVSDS JBLARG.CAPTURE.HTML on 07/14/2020 at 11:14:15 by JBLARG from S0W1
```

If you open the attachment it will display an html file that appears as a single display screen that can be scrolled right to see all of the Job List display columns and scrolled down to see all 132 jobs.

Use the simple IOF exec below to automate capturing and emailing a panel. You can name it anything you like and store it into a system SYSPROC or SYSEXEC library. If you named it SENDPANL then you can invoke it on any IOF panel that you want to capture:

```
%SENDPANL
```

```

/* This exec will capture an IOF panel and email it in html format. */
say 'Enter a name, which will automatically be suffixed by "html".'
say 'It will be used as: '
say ' '
say '   The intermediate target data set name, AND'
say '   The PC file name'
say ' '
say ' Enter name (to be suffixed with "html"):'
pull name
say ' '
dsn = name'.html'
address ioof
"sd dsn("dsn") recfm(vb) lrecl(2048)"
if rc \= 0 then
  do
    say "Invalid dsname:" dsn
    return
  end
"capture all"          /* Capture the panel */
crc = rc
if crc \= 0 then
  do
    say "Capture failed, rc =" crc
    return
  end
"snapclos"            /* Close the SD data set */
call ioofmail "file("dsn)" "format(html) convert"
parse var result  irc/'
if irc \= 0 then
  do
    say "Email failed, error =" result
    return
  end
say "Captured panel emailed successfully"
say ' '
say 'Enter "NODEL" to save intermediate data set ('dsn') :'
pull ans
if strip(translate(ans)) \= 'NODEL' then address TSO "delete" dsn
else say 'Data set' dsn 'not deleted.'

```