

TO: MIB DISTRIBUTION

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DATE: June 2, 1978

SUBJECT: ONLINE INSTALLATION CHANGES

 The following is a list of changes to the standard service system, tools, network, unbundled, author maintained and installation maintained libraries for the week beginning May 29, 1978.

MCR # : Explanation briefly summarizing the modification.

DATE	SEGMENT NAME	LIBRARY
	COMPONENT changes (if any)	

MCR 2551, 2890, 2894, 2897, 2914, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2978, 3244, 3246: The following modules were put together in four parts incorporating the changes to the IO daemon. The four parts were then installed at one time.

Part One installed changes to bound_prtdim_ (TOOLS), bound_g115_ (TOOLS), bound_misc_commands_ (SSS), and bound_spooler_util_ (TOOLS) to install the tools portion of the new printer software. spool_driver_ was included in the bound segment bound_spooler_util_ (TOOLS) and deleted as an unbound segment (TOOLS).

Part Two installed changes to bound_lodd_ (TOOLS), bound_print_sheets_ (TOOLS), and bound_ioadc_ (TOOLS) to add new printer control features: page restart, slew to channel, automatic paper size adjustment (including head/tail sheets), new driver control parameters, sample head sheet command; and new spool driver which provides similar features.

Part Three installed bound_card_input_ (TOOLS), bound_card_dims_ (TOOLS), bound_admin_tools_ (TOOLS), bound_user_control_ (TOOLS), bound_io_commands_ (SSS), and bound_absentee_com_ (SSS) to add new site card input and RJE features for central site card reader, to allow blank password for bulk data input, and to allow user to change card input password.

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Part Four installed bound_remote_io_ (TOOLS) to add the new IO daemon driver for ibm2780 type remote terminals.

06/02/78 0730.7 spool_driver_ deleted from TOOLS
06/02/78 0730.7 driver_status.incl.pl1 replaced in INCL
06/02/78 0730.7 ibm2780_data.incl.pl1 added to INCL
06/02/78 0730.7 iod_changes.info added to INFO
06/02/78 0730.7 card_input.info replaced in INFO
06/02/78 0730.7 card_access_control.info replaced in INFO
06/02/78 0730.7 iodd_static.incl.pl1 replaced in INCL
06/02/78 0730.7 printer_types.incl.pl1 replaced in INCL
06/02/78 0730.7 prt_conv_info.incl.aln replaced in INCL
06/02/78 0730.7 prt_conv_info.incl.pl1 replaced in INCL
06/02/78 0730.7 prt_order_info.incl.pl1 added to INCL
06/02/78 0730.7 prt_rqti.incl.pl1 added to INCL
06/02/78 0730.7 prt_sdb.incl.pl1 replaced in INCL
06/02/78 0730.7 remote_attach_data.incl.pl1 added to INCL
06/02/78 0730.7 rqti_header.incl.pl1 added to INCL
06/02/78 0730.7 spooler_changes.info added to INFO
06/02/78 0730.7 spooling_info.incl.pl1 replaced in INCL
06/02/78 0730.7 bound_prtdim_ replaced in TOOLS

replaced:

prtdim
prtdim_attach
prtdim_util
prtdim_changemode
prtdim_order
prtdim_write
bound_prtdim_.bind

06/02/78 0730.7 bound_g115_ replaced in TOOLS

```

replaced:  g115_
           g115_as_
           g115_dim_
           g115_control_
           g115_io_
           g115_input_proc_
           g115_conv_
           g115_message_
           g115_util_

06/02/78  0730.7  bound_misc_commands_ replaced in SSS

           added:  rje_args
                   set_epilogue_command

           replaced:  overlay
                     print_conv_
                     bound_misc_commands_.bind

06/02/78  0730.7  bound_spooler_util_ replaced in TOOLS

           added:  spool_driver_

           replaced:  spooldim_
                     spooling_dim_xtatch_
                     get_spooling_data_
                     spooling_dim_order_
                     file_monitor_
                     spooling_dim_write_
                     spool_conv_
                     print_spooling_tape
                     unspool_
                     spooling_question_handler_
                     spool_static_
                     bound_spooler_util_.bind

           deleted:  spooling_dim_changemode_

06/02/78  0730.7  bound_iodd_ replaced in TOOLS

           added:  iodd_get_cmd_
                   iodd_msg_
                   do_prt_request_
                   cv_prt_rqt_
                   display_prt_rqt_

           replaced:  iodd_listen_
                     iodd_command_processor_
                     io_daemon_account_
                     printer_driver_

```

```

output_request_
write_control_form_
iodd_quit_handler_
iodd_signal_handler_
iodd_hangup_
iodd_
bound_iodd_.bind

06/02/78 0730.7 bound_print_sheets_ replaced in TOOLS

replaced: head_sheet_
tail_sheet_
bound_print_sheets_.bind

06/02/78 0730.7 bound_iodc_ replaced in TOOLS

replaced: iod_tables_compiler
print_iod_tables

06/02/78 0730.7 bound_card_input_ replaced in TOOLS

added: validate_card_input_

replaced: read_cards_
cards_overseer_
bound_card_input_.bind

06/02/78 0730.7 bound_card_dims_ replaced in TOOLS

added: card_util_

replaced: crzcpz_dim
mcc_dim
viipunch_dim
raw_dim
bound_card_dims_.bind

06/02/78 0730.7 bound_admin_tools_ replaced in TOOLS

replaced: cv_persmf

06/02/78 0730.7 bound_user_control_ replaced in TOOLS

replaced: bound_user_control_.bind

06/02/78 0730.7 bound_io_commands_ replaced in SSS

replaced: copy_cards

06/02/78 0730.7 bound_absentee_com_ replaced in SSS

```

replaced: enter_abs_request

06/02/78 0730.7 bound_remote_io_ added to TOOLS

added:
remote_driver_
remote_printer_
ibm2780_conv_
remote_punch_
remote_reader_
remote_teleprinter_
ibm2780_
rmcc_
bound_remote_io_.bind

Installation Instructions for New IO Daemon

On MIT, all software is online in the following directories:

source archives >udd>e>jcw>new_iod>source
object archives >udd>e>jcw>new_iod>object
bind files (in each object archive as needed.)
include files >udd>e>jcw>new_iod>source>incl
bound components >udd>e>jcw>new_iod>bound_components
operational data >udd>e>jcw>new_iod>doc
spooler_changes.info
pending_changes.info
prt.runout (almost complete printer daemon info)
iod_changes.info
book.runout (new Bulk IO manual - complete)
user info files >udd>e>jcw>new_iod>doc
card_access_control.info (coming from Phx)
card_input.info (coming from Phx)
printer_changes.info (coming from Phx)
(actual installed name should be prt_vert_format.)
Documentation preliminary (old) documentation is in
>udd>e>jcw>new_iod>doc>old
newest documentation is in the latest update to
MPM reference data section
Multics Bulk I/O manual (new for MR 6.1)

Naming Convention

Source archives are named bound_xxx_.s.ud.archive for updates to the source archive of bound_xxx_.

Source archives named bound_xxx_.s.archive are complete source archives for bound_xxx_. (except for bound_misc_commands_.s.archive which is an update archive with too long a name.)

Object archives are named bound_xxx_.ud.archive for updates to the object archive of bound_xxx_.

Object archives named bound_xxx_.archive are complete object archives for bound_xxx_. (No exceptions.)

Installation Instructions

The installation is broken into 4 steps. Each step must be completed as a whole and each must be done in order as some programs rely on changes in a previous step. The whole installation can be done in one step if desired. The 4 steps are defined as follows:

STEP 1:

Install the new printer software and all programs which use it or reference `prt_conv_info.incl.aim` (`pl1 aim`).

or have in updating directory →

install include files.

for printer software

```
prt_conv_info.incl.aim
prt_conv_info.incl.pl1
prt_order_info.incl.pl1
printer_types.incl.pl1
remote_attach_data.incl.pl1
prt_sdb.incl.pl1
```

for g115

```
lodd_static.incl.pl1
driver_status.incl.pl1
```

for spooler

```
spooling_info.incl.pl1
spooling_sdb.incl.pl1 (delete)
spool_conv_info.incl.pl1 (delete)
spool_conv_info.incl.aim (delete)
```

Hardware Step 1

- before making any online changes, make a new system tape replacing the following segments

```
bound_printer_util_
bound_util_print
bound_temp_1
```

(Note: This tape will not run the old printer dia in tools.)

Online Step 1

- before bringing up any IO daemons or user processes, install all tools and sss segments which use the new version of `bound_printer_util_` on the new system tape, which are

in tools

```
bound_prtdia_
bound_g115_
bound_spooler_util_
```

in sss

```
bound_misc_commands_
```

- delete the single segment "`spool_driver_`" from tools (It is now in `bound_spooler_util_`)

- step 1 is now complete. The old printer daemon can run the new printer software at this point. The new spool driver will NOT work until the new IO Daemon is installed in STEP 2.

STEP 2:

Install the new IO Daemon driver software and related segments.

- install include files.

prt_rqt1.incl.pl1
rqt1_header.incl.pl1

(plus include files from step 1)

- replace the following segments in tools

bound_iodd_
bound_iodc_
bound_print_sheets_

- step 2 is now complete. The new IO Daemon can now be run.
The new spool driver will also run now.

STEP 3:

Install the new card input software, RJE facility and all related segments.

- replace the following segments

in tools

bound_card_input_
bound_card_dias_
bound_admin_tools_
bound_user_control_ (bindfile change only)

in sss

bound_io_commands_
bound_absentee_com_

- step 3 is now complete. Card input and RJE can be used from the central site reader, according to the new ref data section of the MPH and the new Multics Bulk I/O manual.

STEP 4:

Install the remote driver software which will run the IBM 2780 type remote terminal interface.

- install include files.

ibm2780_data.incl.pl1

(plus include files from steps 1 & 2)

- add the following segment to tools

bound_remote_io_

- step 4 is now complete. RJE features can now be run from 2780 type remote devices.