TO: MIB DISTRIBUTION

FROM: Cynthia W. Anderson

DATE: July 8, 1977

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 July 5, 1977.

*****
MCR # : Explanation briefly summarizing the modification.

DATE   SEGMENT NAME   LIBRARY

            COMPONENT changes (if any)

****

*****
MCR 2659: Installed new bound fortran (UNB) which consists of
the entire old_fortran compiler, including a copy of the current
version of the PL/1 code generator. This installation
effectively freezes old fortran at its current state, ensuring
that it will not need to be updated to any future PL/1 code
generator changes.

07/05/77   1154.5   init_ftn_builtin deleted from TOOLS

07/05/77   1154.5   fortran_version_ deleted from UNB

07/05/77   1154.5   fortran_blast_ deleted from UNB

07/05/77   1154.5   bound_lang_util_ replaced in LANG

           replaced: bound_lang_util_.bind

07/05/77   1154.5   bound_fortran_ replaced in UNB

           added: of_pl1_get
                       of_lang_util_
                       of_create reference
                       of_create token
                       of_bindec
                       of_create_identifier
                       of_create_list

Multics Project internal working documentation. Not to be
reproduced or distributed outside the Multics Project.

```
of_create_statement
of_create_operator
of_create_symbol
of_copy_expression
of_create_label
of_free_node
of_create_cross_reference
of_declare_constant
of_get_size
of_create_storage
of_share_expression
of_declare_temporary
of_convert
of_declare_descriptor
of_compare_expression
of_token_to_binary
of_create_bound
of_create_array
of_get_array_size
of_pl1_signal_catcher
of_create_block
of_gen_pl1_symbol
of_operator_names
of_name assign
of_generate_definition
of_compile_link
of_gen_pl1_linkage
of_assign_storage
of_initialize_ext_static
of_initialize_int_static
of_declare_integer
of_declare_pointer
of_sym_sort_alphabetic
of_binoct
of_pl1_print
of_display_pl1_text
of_display_text
of_op_mnemonic
of_error_
of_reserve
of_pl1_stat_
of_tree_manager
of_merge_attributes
of_create_context
of_mst
of_optimizer
of_fortran
fortran_version_
fortran_blast_
of_cg_stat
```

```
of_state_man
of_copy_temp
of_need_temp
of_get_reference
of_store_blt_address
of_opcode_info
of_assign_info
of_adjust_ref_count
of_c_a
of_stack_temp
of_compile_block
of_load
of_store
of_call_op
of_compile_statement
of_prepare_operand
of_m_a
of_base_man
of_compile_tree
of_expmac
of_instruction_info
of_macro_table
of_compile_exp
of_assign_op
of_jump_op
of_set_indicators
of_eval_exp
of_aq_man
of_base_to_core
of_pointer_bultins
of_compile_entry
of_code_generator
of_make_mod
of_arith_data
of_arith_op
of_make_both_addressable
of_move_data
of_xr_man
of_generate_constant
of_power_of_two
of_compare_ptrs
of_long_op
of_load_size
of_optimize_if
of_ctl_char
of_cg_
of_e_v
of_string_op
of_get_variable
of_save_value
```

```
                    of_fixed_to_float
                    of_inline_operation
                    of_length_op
                    of_check_o_and_s
                    of_get_single_ref
                    of_string_temp
                    of_cat_op
                    of_constant_zero
                    of_expmac_test
                    of_min_max
                    of_complex_stuff
                    of_exp_op
                    of_io_op
                    of_get_imaginary
                    of_decimal_op
                    of_convert_chars
                    of_cg_error
                    of_create_default
                    of_refer_extent
                    of_declare_picture
                    of_declare_picture_temp
                    of_decbin
                    of_parse_error
                    of_decode_node_id
                    of_pl1_error_print
                    of_binary_to_octal_string
                    of_error
                    of_display_pl1_map
                    of_compile_formats
                    of_copy_unique_expression
                    of_display_stat_
                    of_display
                    of_display_any_node_name
                    of_display_array
                    of_display_block
                    of_display_constant
                    of_display_exp
                    of_display_list
                    of_display_source
                    of_display_statement
                    of_display_symbol
                    of_show_declaration
                    of_show_ms
                    of_show_statement
                    of_stop_at

replaced:           fortran_parse
                    statement_recognizer
                    flex
                    ftn_lex_data
```

```
                          cardlex
                          card_lex_data
                          fortran_lf_parse
                          fortran_assign_parse
                          fortran_expression_parse
                          fortran_reference_parse
                          dcl
                          fortran_subscripter
                          builtin_function
                          fortran_data
                          fortran_reserve
                          replace_parameters
                          fortran_operator_semantics
                          fortran_crse parse
                          go_to_parse
                          fortran_do_parse
                          fortran_lo_parse
                          make_format
                          fortran_format_parse
                          fortran_subroutine_parse
                          declaration_parse
                          type
                          initial_attribute
                          prologue_entry
                          stmnt_func_parse
                          set_parameters
                          fortran_symbol_print
                          fortran_lo_op
                          bound_fortran_.bind

        deleted:          fortran
                          fortran_
                          fortran_xfer_vector
```

*****

MCR 2060: Installed new bound_mseg_ (SSS) which now utilizes
version 4 message segments. The maximum size of a message in
a queue message segment or a mailbox message segment is increased
by this installation to the size of a full segment less header size.
A new bound segment, bound_mseg_v3_, was also installed in SSS
containing version 3 message segment programs. An automatic
conversion program, convert_mseg_v3_, was also installed.

07/06/77   1533.8   ms_block_trailer.incl.pl1 replaced in INCL

07/06/77   1533.8   ms_block_trailer_v3.incl.pl1 added to INCL

07/06/77   1533.8   mseg_convert_v3_ added to SSS

07/06/77   1533.8   mseg_hdr.incl.pl1 replaced in INCL

```
07/06/77   1533.8      mseg_hdr_v3.incl.pl1 added to INCL

07/06/77   1533.8      mseg_return_args.incl.pl1 replaced in INCL

07/06/77   1533.8      mseg_return_args_v3.incl.pl1 added to INCL

07/07/77   1533.8      bound_mseg_ replaced in SSS

           replaced:   mseg_
                       mseg_add_
                       mseg_util_
                       mseg_data_
                       ms_salvager_
                       ms_salv_util_
                       mseg_error_
                       mseg_convert_
                       mbx_mseg_
                       queue_mseg_
                       bound_mseg_.bind


07/06/77   1533.8      bound mseg_v3_ added to SSS

           added:      mseg_util_v3_
                       mseg_data_v3_
                       ms_salvager_v3_
                       ms_salv_util_v3_
                       mseg_error_v3_
                       bound_mseg_v3_.bind
```

*****
MCR 2706: Installed new bound alm (LANG) with changes to
alm definitions causing ALM to produce object segments including
a definition hash table. new_sthedr_ was also changed to reflect
that this is ALM version 6.1.

```
07/07/77   1506.0      bound_alm_ replaced in LANG

           replaced:   alm_definitions_
                       new_sthedr_
```

*****
MCR 2731: Installed new bound hardcore_db_ (TOOLS) with new
command/active function, mcs version. This command allows a user
to find out the version of the current FNP core image. Type
"help mcs_version" for more information.

07/08/77   1151.3   mcs_version.info added to INFO

07/08/77   1151.3   bound_hardcore_db replaced in TOOLS

            added: mcs_version

         replaced: bound_hardcore_db_.bind

*****
MCR 2792: Installed new bound.info_rtns. (SSS) with changes to
help so that it will report zero length segments, and so the
"rest" response will not cause a section title to print.

07/08/77   1233.0   bound_info_rtns_ replaced in SSS

         replaced: help