

```

CGCC 000 M M PPPP III L EEEEE RRRR
C O O MM MM P P I L E R R
C O O M M M P P I L E R R
C O O M M PPPP I L EEEE RRRR
C O O M M P I L E R R
C O O M M P I L E R R
CCCC 000 M M P III LLLLL EEEEE R R

```

```

FFFFF RRRR AAA M M EEEEE W W 000 RRRR K K 4 4
F R R A A MM MM E W W O O R R K K 4 4
F R R A A M M M E W W O O R R K K 4 4
FFFF RRRR A A M M EEEE W W O O RRRR KKK 44444
F R R AAAAA M M E W W W O O R R K K 4
F R R A A M M E WW WW O O R R K K .. 4
F R R A A M M EEEEE W W 000 R R K K .. 4

```

```

*START* Job COMPIL Req #17 for TRW Date 18-Jul-83 8:33:44 Monitor: RATIONAL
File RM:<TRW>COMPILER.FRAMEWORK.4, created: 18-Jul-83 8:33:30
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Job parameters: Request created:18-Jul-83 8:33:43 Page limit:27 Forms:NORMA
File parameters: Copy: 1 of 1 Spacing:SINGLE File format:ASCII Print mode:

```

-- COMPILER CONTROL --

```
subprogram body MVMAIN
package        COMPILER

package        COMMAND_INTERPRETER
  package body FILE_OPS
  package body COMMAND_LINE
  package body COMPILER_CONTROL
package        CLI_MESSAGE
```

-- PASS1: SCANNER and PARSER --

```
package        PARSER
package        SCANNER
  package body NUMBER_SCANNER
package        LANGUAGE_DEPENDENT_RECOVERY
package        LANGUAGE_DEPENDENT
package        SOURCE
package        NONTERMINALS
package        GRAMMAR_DEPENDENT
package        PP_ATTRIBUTES
package        ID_MAPPING
package        BUILD_DIANA
  package body BUILD_1
  package body BUILD_2
  package body BUILD_3
package        TRANSFORM_TREE
package        MESSAGE_OUTPUT
```

-- PASS2: SEMANTICS --

```
package          SEMANTICS
package body     INSERT_STANDARD
package body     SEPARATE_COMPILATION
package body     CONTEXT
```

-- UNITS --

```
package body     UNIT_CHECKING
package body     UNIT_UTIL
```

-- DECLARATIONS --

```
package body     DECL_CHECKING
package body     TYPE_CHECKING
package body     RECORD_TYPE_CHECKING
package body     DERIVED_TYPE_CHECKING
package body     NUMERIC_TYPE_CHECKING
package body     CONSTRAINT_CHECKING
package body     DISCRIMINANT_CONSTRAINT
package body     INDEX_CONSTRAINT
package body     OP_BUILDING
package body     REP_CHECKING
package body     OBJECT_CHECKING
package body     RENAME_CHECKING
package body     GENERIC_CHECKING
package body     INSTANTIATION_CHECKING
package body     USE_CHECKING

package body     PRAGMA_CHECKING
package body     NONSTANDARD_PRAGMA_CHECKING
```

-- STATEMENTS --

```
package body     STMT_CHECKING
package body     TASK_STMT_CHECKING
package body     EXCEPTION_CHECKING
package body     CODE_INSERTION_CHECKING
```

-- MOSTLY RANGES --

```
package body     RANGE_CHECKING
package body     CHOICE_LIST_CHECKING
```

-- EXPRESSIONS --

```
package body      EXPR_CHECKING
package body      EXPR_TYPES
package body      EXPR_SOLVING
package body      AGG_CHECKING
package body      ALLOCATOR_CHECKING
package body      APPLY_TYPES
package body      APPLY_SOLVING
package body      ATTR_CHECKING
  package body    MACHINE_DEPENDENT_ATTR_CHECKING
  package body    ATTR_UTIL
package body      CONVERSION_CHECKING
package body      INDEXED_CHECKING
package body      SELECTED_CHECKING
package body      TASK_CHECKING

package body      LITERAL_EXPR_CHECKING
```

-- SYMBOL TABLE --

```
package body      NAME_CHECKING
package body      SYMBOL_TABLE
  package body    ST_UTIL
```

-- UTILITY PACKAGES --

```
package body      MATCHING
package body      UTILITIES
package body      EXPR_UTIL
package body      MSGS
```

-- SHARED PACKAGES: SEMANTICS/CODE_GENERATOR --

```
package          DIANA_EXPAND
  package body   PARAMETER_SETUP
  package body   ATTRIBUTOR
  package body   COPIER
```

```
package          SIMPLIFIER
  package body   SELECTION_SIMPLIFIER
  package body   CALL_SIMPLIFIER
  package body   ATTR_SIMPLIFIER
```

-- PASSES 3 and 4: CODE_GENERATOR and ASSEMBLER --

```
package          CODE_GENERATOR
package body     MEMBERSHIP_OPS
package body     RELATIONAL_OPS
package body     ARRAY_OPS
package body     BOOLEAN_OPS
package body     FIXED_OPS
package body     FLOAT_OPS
package body     INTEGER_OPS
package body     PREDEFINED_OPS
package body     FIELD_OPS
package body     RANGE_GEN
package body     ALLOCATOR_GEN
package body     ARRAY_AGG_GEN
  package body   DEPENDENT_ARRAY_AGG
  package body   ARRAY_AGG_CHECKING
  package body   ARRAY_AGG_OTHERS
  package body   ARRAY_AGG_VAR
  package body   ARRAY_AGG_WRITE
  package body   ARRAY_AGG_UTIL
package body     RECORD_AGG_GEN
package body     CONVERSION_GEN
package body     CALL_GEN
  package body   CALL_INLINING
  package body   CALL_RETURN
  package body   CALL_SETUP
  package body   CALL_UTIL
package body     ATTR_GEN
  package body   MACHINE_ATTRS
  package body   TASK_ATTRS
  package body   RECORD_ATTRS
  package body   ARRAY_ATTRS
  package body   DISCRETE_ATTRS
  package body   SCALAR_ATTRS
  package body   ATTR_UTIL
package body     CONDITION_GEN
package body     TASK_NAME_GEN
package body     EXPR_GEN
package body     EXPR_STACK
package body     EXPR
package body     KERNEL
package body     ACCEPT_GEN
package body     EXCEPTION_GEN
package body     ASSIGN_GEN
package body     CASE_GEN
package body     STMT_GEN /
  package body   PREPROCESS
  package body   CODE_INSERTION
  package body   SELECT_GEN
  package body   LOOP_GEN
  package body   RETURN_GEN
package body     REPR_GEN
package body     PRAGMA_GEN
package body     OBJECT_DECLARE
package body     OBJECT_GEN
```

```
package body    RENAME_GEN
package body    DISCRIM_GEN
package body    FLOAT_GEN
package body    FIXED_GEN
package body    CONSTRAINT_GEN
package body    ARRAY_INIT_GEN
package body    ARRAY_GEN
package body    DEPENDENT_ARRAY_GEN
package body    RECORD_INIT_GEN
package body    COMPATIBILITY_CHECK
package body    RECORD_SIZE
package body    DISCRIM_DEPENDENCY
package body    VARIANT_RECORD_UTILITIES
package body    RECORD_INIT_UTIL
package body    RECORD_PARAMETERIZE
package body    RECORD_INIT
package body    RECORD_GEN
package body    TYPE_SIZE
package body    TYPE_GEN
package body    TYPE_SPEC_GEN
package body    INSTANTIATION_GEN
package body    BODY_GEN
package body    BLOCK_GEN
package body    TASK_SPEC_GEN
package body    SPEC_GEN
package body    DECL_GEN
package body    STACK_FRAME
package body    CHECKS
package body    CHECK_DECISION
package body    CONSTRAINT_MATCHING
package body    UTILITIES
package body    REGISTERS
package body    TEST_GEN
package body    LINKAGE
package body    GEN
package body    SEPARATE_COMPILATION
package body    DEBUGGING
package body    MSGS
package        ADD_CG_ATTRS_TO_STANDARD
package        BREAK_CAUSES
package        STRUCTURE_UTILITY
package        OP_UTIL
package        OPS
package        LABEL_MAPPING
package        OBJECT_FILE
package        CODE
package        ASSEMBLER_CODE
package        OBJECT_CODE
package        OBJECT_CODE_LITERALS
package        MV8000

package        UNIQUE_NAMES
```

-- TARGET MACHINE INTERFACE --

```
package      MACHINE_DEPENDENT
  package body  TARGET_SYSTEM
package      SYSTEM
package      MACHINE_CODE
package      CONVENTIONS
package      KERNEL_CONVENTIONS
```

-- PROGRAM LIBRARY MANAGEMENT --

```
package      LIBRARY
package      PROGRAM_LIBRARY
  package body  MODULE_NAMES
  package body  LIBRARY_IO
```


-- DIANA IMPLEMENTATION and UTILITIES --

```
package      DIANA
package      DIANA_NAMES
package      DIANA_FORMATTER
package      DIANA_IO
package      CHANGE_DIANA
package      DIANA_COPY
package      DIANA_RENAMES
package      LX_ATTRS
package      SEM_ATTRS
package      AS_ATTRS
package      UTIL
package      IMPLEMENTATION
package      MAPPING

package      COMPILER_UTILITIES
package      DIANA_UTILITIES
package      LOW_LEVEL_DIANA_UTILITIES

package      LIB_ATTRIBUTES
package      SM_ATTRS
package      CG_ATTRS
package      COMPILER_ATTRIBUTES

package      SYMBOLIC_IO
package      ATTRIBUTE_NAMES

package      TREE_IO
  package body EXT_DUMPER
  package body EXT_LOADER
  package body TREE_DUMPER
  package body TREE_LOADER
  package body STRING_DUMPER
  package body STRING_LOADER
```

-- REPRESENTATION of the package STANDARD

```
package      STANDARD_PACKAGE
  package body STANDARD_TYPES
  package body STANDARD_FUNCTIONS
```

-- TEXT MANAGEMENT --

```
package      TEXT_MANAGEMENT
package      CHECK_NAMES
package      PRAGMA_NAMES
package      OPERATOR_NAMES
package      EXCEPTION_NAMES
package      MV_ATTR_NAMES
package      ATTR_NAMES
```

-- MISCELLANEOUS UTILITIES --

package	SWITCHES
package	LIMITS
package	VERSION
package	DATE
package	STRING_CONVERSION
package	LONG_FLOATS
package	BIT_OPS
subprogram	UNCHECKED_CONVERSION

-- INPUT/OUTPUT PACKAGES --

package	IO
package	COMMON_IO
package	BUFFERED_IO
package	TIME_IO
package	BLOCK_IO
package	TTY_IO
package	TEMP_FILE
package	IO_EXCEPTIONS
package	AOS_IO
package	FILE_IO
package	FILE_DEFINITIONS
package	FILE_MANAGEMENT
package	DELAYING
package	CURRENT_EXCEPTION
package	ERROR_CODES
package	BUFFERED_BYTE_IO
package	LIST_MANAGER
package	HEADER

-- OTHER HOST SYSTEM INTERFACE PACKAGES --

package	FORK
package	PROCESS_MANAGEMENT
package	SYSTEM_CALLS
package	SYS_CALLS

-- DIRECT OBJECT CODE GENERATION PACKAGES --

```
package      PASS_2
package      PASS_1
  package body DATA
  package body CODE
package      PARTITION_MANAGER
  package body PATCH
package      RELOCATION_MANAGER
package      OBJECT_RECORD_MANAGER
package      INSTRUCTION_SET
package      PHYSICAL_OUTPUT
package      INSTRUCTIONS
package      FULL_OBJECT_BLOCKS
package      PARTIAL_OBJECT_BLOCKS
package      OBJECT_BLOCKS
package      LABEL_MANAGER
package      MAP
package      UNSIGNED_PACKING
package      STRING_PACKING
```