

MUMPS Development Committee

Extension to the MDC Standard
Type A Release of the MUMPS Development Committee

SET Command Clarification

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Produced by the MDC Task Group #17
Interpretations

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Because of the evolutionary nature of MDC specifications, the reader is further reminded that changes are likely to occur in the specification released, herein, prior to a complete republication of the MDC Standard.

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1. Identification

1.1 Title

SET Command Clarification

1.2 MDC Proposer and Sponsor

Proposer

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1.3 Motion

None. This document supersedes X11/TG17/94-9.

1.4 History

29 Jan 95	X11/TG17/94-9	Accepted by MDC.
23 Mar 94	X11/TG17/94-4	Accepted by the Interpretations task group.

1.5 Dependencies

This clarification modifies ANSI/MDC X11.1-1994 Canvass Version 1.

2. Justification of the Clarification

2.1 Needs

- a) The metalanguage of the SET command incorporates SET \$EXTRACT but the English description of the execution of its setarguments does not.
- b) The effect on the naked indicator of processing gvns in setlefts needs clarification.

2.2 Existing Practice in Area of the Clarification

All known implementations are consistent with the clarification presented here.

3. Description of the Clarification

3.1 General Description of the Clarification

setextract is added to the English description of the execution of setarguments, making it consistent with the metalanguage.

An amplifying sentence is added to the description of modifications to the naked indicator.

3.2 Annotated Examples of Use

SET \$EXTRACT(^D(3,^A(5)),1,^B(5))=^C(5)

The naked indicator is affected in sequence by the references to ^A, ^B, ^C, and ^D.

SET (^C(3,^A(5)),^D(5))=^B(5)

The naked indicator is affected in sequence by the references to ^A, ^B, ^C, and ^D.

3.3 Formalization

Change ANSI/MDC X11.1-1994 Canvass Version 1, clause 8.2.18 SET:

a) One of the following two operations is performed:

1) If the ...

2) If the portion of the setargument to the left of the = consists of a setpiece or a setextract, the glvn that is the first argument of the setpiece or setextract is scanned in left-to-right order and all subscripts are evaluated in left-to-right order within the glvn, and then the remaining arguments of the setpiece or setextract are evaluated in left-to-right order.

The value of the naked indicator may be modified as a side-effect of the execution of a SET command. Events that influence the value of the naked indicator are (in order of evaluation):

1) references to glvns in exprs in arguments or subscripts of setlefts (References defined as scanned in this clause do not affect the naked indicator, while references defined as evaluated do affect it.);

4. Implementation Effects

4.1 Effect on Existing User Practices and Investments

None.

4.2 Effect on Existing Vendor Practices and Investments

All known implementations are consistent with the clarification presented here.

4.3 Techniques and Costs for Compliance Verification

None.

4.4 Legal Considerations

None.

5. Closely Related Standards Activities

5.1 Other X11 Proposals Under Consideration

None. Proposals for which there are dependencies are listed in 1.5.

5.2 Other Related Standards Efforts

None.

5.3 Recommendations for Coordinating Liaison

None.

6. Associated Documents

None.

7. Issues, Pros and Cons, and Discussion

None.

8. Glossary

None.