

Subject: Another syntax regularization
 From: Van Snyder

1 Introduction

In the discussion of a replacement for PASS_OBJ, Malcolm suggested a prefix, e.g. OBJECT[(*argname*)]. Richard Maine observed that the PROCEDURE keyword was the primary thing, so whatever word is used ought to be in the “attribute” position. Malcolm agreed that that point of view has some merit.

This paper proposes to extend that point of view to subroutine and function headers.

2 Edits

Edits refer to 02-007r1. Page and line numbers are displayed in the margin. Absent other instructions, a page and line number or line number range implies all of the indicated text is to be replaced by associated text, while a page and line number followed by + (-) indicates that associated text is to be inserted after (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

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| 13 | or FUNCTION [[, <i>function-attr-list</i>] ::] <i>function-name</i> ■ | 277:6+ |
| 14 | ■ ([<i>dummy-arg-name-list</i>]) | |
| 15 | [Editor: Insert “, R1228 $\frac{1}{2}$, R1231 $\frac{1}{2}$ ” after “R1227” twice; insert “, <i>function-attr-list</i> , or <i>subroutine-attr-list</i> ” after “ <i>prefix</i> ” twice.] | 277:25, 26 |
| 17 | R1228 $\frac{1}{2}$ <i>function-attr</i> is <i>prefix-spec</i> | 277:27+ |
| 18 | or <i>proc-language-binding-spec</i> | |
| 19 | or RESULT (<i>result-name</i>) | |
| 20 | C1242 $\frac{1}{2}$ (R1224) A <i>function-attr-list</i> shall contain at most one of each <i>function-attr</i> . | |
| 21 | [Editor: Delete “The <i>prefix-spec</i> ”.] | 278:3 |
| 22 | [Editor: Delete “the <i>prefix-spec</i> ” twice.] | 278:20,22 |
| 23 | or SUBROUTINE [[, <i>subroutine-attr-list</i>] ::] ■ | 279:9+ |
| 24 | ■ <i>subroutine-name</i> [([<i>dummy-arg-name-list</i>])] | |
| 25 | R1231 $\frac{1}{2}$ <i>subroutine-attr</i> is <i>prefix-spec</i> | |
| 26 | or <i>proc-language-binding-spec</i> | |
| 27 | C1246 $\frac{1}{2}$ (R1231) A <i>subroutine-attr-list</i> shall contain at most one of each <i>subroutine-attr</i> . | |
| 28 | [Editor: Insert “or <i>subroutine-attr-list</i> ” after “ <i>prefix</i> ”.] | 279:10 |
| 29 | [Editor: Delete “The <i>prefix-spec</i> ”.] | 279:21 |
| 30 | [Editor: Delete “the <i>prefix-spec</i> ” twice.] | 280:5,7 |
| 31 | [Editor: “that ... ELEMENTAL” ⇒ “for which PURE or ELEMENTAL appears as a <i>prefix-spec</i> , <i>function-attr</i> , or <i>subroutine-attr</i> ”.] | 283:26 |
| 32 | | |
| 33 | [Editor: “has ... ELEMENTAL” ⇒ “for which ELEMENTAL appears as a <i>prefix-spec</i> , <i>function-attr</i> , or <i>subroutine-attr</i> ”.] | 285:5 |
| 34 | | |

¹ [Editor: “The PURE *prefix-spec*” ⇒ “PURE”; “the ELEMENTAL *prefix-spec*” ⇒ “ELEMEN- 285:6
² TAL”.]