

To: /B subgroup
 Subject: Issue 339
 From: Van Snyder

1 Introduction

Unresolved issue note 339 says

The bnf term *external-file-unit* (R902) is now inappropriate because it can sometimes be used for files that are not external. Notably in child data transfer statements, where it might be connected to an internal unit. None of the occurrences actually depend on this terminology. Several statements do use the bnf term in their bnf in places where an internal unit won't do. But none of them rely on the bnf for that restriction. The only way this syntax could refer to an internal unit is in a child data transfer statement and we prohibit all the questionable statements on a unit while a parent is active except inquire, which we handle explicitly). The defining thing about this bnf term is not that it represents an external file, but that it is a number.

The editor suggests changing *external-file-unit* to *file-unit-number*. This paper also proposes that *internal-file-unit* be changed to *internal-file-variable* because it is not the only way to identify an internal file.

2 Edits

Edits refer to 01-007r2. 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 immediately following text, while a page and line number followed by + (-) indicates that immediately following text is to be inserted after (before) the indicated line. Remarks are noted in the margin, or appear between [and] in the text.

[Editor: Delete unresolved issue note 339.]	168:3-18
[Editor: Replace <i>external-file-unit</i> by <i>file-unit-number</i> and fix indefinite articles at the following places: 168:19 168:22 168:26 171:10 171:31 174:42 175:5 177:2 193:21 193:29 194:24 194:26 194:28 194:34 194:39 196:23 197:19 266:44]	
[Editor: “ <i>internal-file-unit</i> ” ⇒ “ <i>internal-file-variable</i> ” twice.]	168:21,23
[Editor: Replace “an <i>external-file-unit</i> ... (13.12)” by an asterisk or a <i>file-unit-number</i> whose value is nonnegative or equal to one of the named constants INPUT_UNIT, OUTPUT_UNIT, or ERROR_UNIT of the ISO_FORTRAN_ENV intrinsic module (13.12). An internal unit is used to refer to an internal file and is specified by an <i>internal-file-variable</i> or a <i>file-unit-number</i> whose value is equal to the unit argument of a currently active derived-type input/output procedure (9.5.4.4.3). The value of a <i>file-unit-number</i> shall identify a valid unit.	168:26-31
[Editor: “The” ⇒ “An”; “by the” ⇒ “by a particular”; “of the” ⇒ “of a”.]	168:32
[Editor: “external ... asterisk” ⇒ “ <i>file-unit-number</i> ”.]	190:39
[Editor: “external unit” ⇒ “ <i>file-unit-number</i> ”.]	190:40
[Editor: “ <i>internal-file-unit</i> ” ⇒ “ <i>internal-file-variable</i> ”]	386:34