

Conversion Tools - Feature #11955

Preprocessor: enforce OpenEdge's 255-level include nesting limit

10/08/2026 06:03 AM - Paula Păstrăguș

Status:	Internal Test	Start date:	
Priority:	Normal	Due date:	
Assignee:	Paula Păstrăguș	% Done:	50%
Category:		Estimated time:	0.00 hour
Target version:		reviewer:	Greg Shah
billable:	No	production:	No
vendor_id:	GCD	env_name:	
case_num:		topics:	4GL Preprocessor
version_reported:			
version_resolved:			
Description			
Related issues:			
Related to Conversion Tools - Feature #11741: implement a fully featured Lang...			WIP

History

#1 - 10/08/2026 06:03 AM - Paula Păstrăguș

- Related to Feature #11741: implement a fully featured Language Server Protocol (LSP) server for 4GL code added

#2 - 10/08/2026 06:11 AM - Paula Păstrăguș

A 4GL include may pull itself in, directly or through other includes. OpenEdge allows this, and stops it only at its nesting limit. FWD's preprocessor has no limit: an include which references itself with no condition, or under one which never turns false, is expanded without end.

OpenEdge behaviour (checked in 11.6): Files may nest 255 levels deep, the program counted, so an include nests 254 deep at most.

#3 - 10/08/2026 06:18 AM - Paula Păstrăguș

Testcase:

depth.i:

```
&IF LENGTH("{1}") = {2} &THEN
MESSAGE "depth.i reached level {2}".
&ELSE
{pmp-test/depth.i {1}x {2}}
&ENDIF
```

depth-main.p:

```
{pmp-test/depth.i x 255}
```

When a value >= 255 is passed to depth.i, OE shows an error, and it doesn't preprocess the main program, explicitly saying that the File has compilation errors.

#4 - 10/08/2026 08:04 AM - Paula Păstrăguș

- Status changed from New to WIP
- Assignee set to Paula Păstrăguș
- % Done changed from 0 to 50
- reviewer Greg Shah added

Committed the solution as rev **16795** / branch 11955a.

Next, I'll create some testcases to fully validate the solution, but so far, the one mentioned in my prev rev is working now, and if 10000 is passed for example, this will be shown in the conversion log:

```
[java] Error in ./abl/pmp-test/depth.i#4:282 ==> Nested recursion limit of 255 exceeded in preprocessor expansion.
[java]
[java] com.goldencode.p2j.preproc.PreprocessorException: Nested recursion limit of 255 exceeded in preprocessor expansion.
```

Please note that the stack trace was reduced, otherwise the conversion output would have been filled with a lot of unnecessary calls.

#5 - 10/08/2026 08:13 AM - Greg Shah

- topics 4GL Preprocessor added

#6 - 10/08/2026 08:47 AM - Greg Shah

- Status changed from WIP to Internal Test

Code Review Task Branch 11955a Revision 16795

I'm good with the change.

#7 - 10/08/2026 08:48 AM - Greg Shah

Please commit your testcases and update [Preprocessor Testcases](#). You'll have to compare versus trunk (the results in the wiki page may relate to 11747a right now).