Base Language - Bug #4483

Unable to use logical variable check in underline statement

12/17/2019 11:39 AM - Roger Borrello

Status: Closed Start date: **Priority:** Normal Due date: Assignee: % Done: 100% Category: **Estimated time:** 0.00 hour Target version: billable: No case_num: GCD vendor id: version: Description

History

#2 - 12/17/2019 11:55 AM - Roger Borrello

Testcase

20191231 Update: Fixed in 4207a-11357

Below is the testcase uast/underline_logic_uses_when.p:

```
def var v1 as character.
def var v2 as integer.
def var 11 as logical initial false.
form
  v1 v2
with frame f1.
/* This yields logical cannot be converted to boolean */
underline
  v1 when l1 = true
  v2 when l1 = false
 with frame fl.
assign v1 = if l1 then "" else "Hello".
/* This yields "error: not a statement"
underline
 v1 when wip-postcode-opt = true
  with frame f1.
assign v1 = if l1 then "" else "Hello".
message "Done.".
```

It generates this error:

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#3 - 12/17/2019 11:59 AM - Roger Borrello

Roger Borrello wrote:

Testcase

Below is the testcase uast/underline_logic_uses_when.p:

[...]

It generates this error:

[...]

It looks to me like rules/convert/operators.rules has the logic for deciding whether to use **isEqual** or **_isEqual**. But it only checks for that if getNoteBoolean("unknown_override") is true (I only see my **NOT** printfln):

```
<!-- EQUALS -->
        <rul><!rule>type == prog.equals
           <rule>getNoteBoolean("unknown_override")
                <action>printfln("operators.walk_rules: unknown_override %s", this.dumpTree())</action>
                <action on="false">printfln("operators.walk_rules: NOT unknown_override %s", this.dumpTree())
/action>
              <!-- simpler unknown value path -->
               <rule>noUnwrap
                  <action>jtext = "_isUnknown"</action>
                  <action on="false">jtext = "isUnknown"</action>
               </rule>
               <rule>javaMethodNames.contains(jtext)
                 <action>jtext = sprintf("CompareOps.%s", jtext)</action>
               </rule>
               <!-- normal path -->
               <rule on="false">noUnwrap
                  <action>jtext = "_isEqual"</action>
                  <action on="false">jtext = "isEqual"</action>
               </rule>
            <action>compimp = true</action>
        </rule>
```

Am I in the right ballpark? Should I more focus on the WHEN?

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#4 - 12/17/2019 12:41 PM - Constantin Asofiei

Roger, see the noUnwrap logic - this should decide if _isEqual or isEqual is emitted, and looks like it depends on parentCanAvoidUnwrap function in common-progress.rules; check why this function doesn't return true in your when case.

#5 - 12/17/2019 02:06 PM - Roger Borrello

Constantin Asofiei wrote:

Roger, see the noUnwrap logic - this should decide if _isEqual or isEqual is emitted, and looks like it depends on parentCanAvoidUnwrap function in common-progress.rules; check why this function doesn't return true in your when case.

Very good hint! :-)

The existing WHEN check was focused on WHEN_LIST/KW_WHEN and KW_COLOR/CONTENT_ARRAY/KW_WHEN. When I added STATEMENT/KW_UNDERLIN/CONTENT_ARRAY/KW_WHEN the correct logical _isEqual is emitted. Thanks! However, I'd still like to know if my code addition could be improved. Is it necessary for me to go all the way back to STATEMENT? The existing code didn't go back that far. Which is best practice?

#6 - 12/17/2019 02:59 PM - Greg Shah

The CONTENT_ARRAY is only found in the MESSAGE, ENABLE, DISABLE, COLOR and UNDERLINE statements, but only COLOR and UNDERLINE can have WHEN clauses. For this reason, it is safe to remove the new code you added and also remove the KW_COLOR:

#7 - 12/17/2019 03:16 PM - Roger Borrello

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Greg Shah wrote:

The CONTENT_ARRAY is only found in the MESSAGE, ENABLE, DISABLE, COLOR and UNDERLINE statements, but only COLOR and UNDERLINE can have WHEN clauses. For this reason, it is safe to remove the new code you added and also remove the KW_COLOR:

[...]

Made that update, and validated against testcase and customer code.

Check-in 4207a-11357.

#8 - 12/17/2019 03:18 PM - Roger Borrello

- Status changed from New to WIP

#9 - 12/31/2019 12:00 PM - Greg Shah

- Status changed from WIP to Test
- % Done changed from 0 to 100

#10 - 03/03/2020 02:53 PM - Roger Borrello

Task branch 4207a was merged to trunk as revision 11344.

#11 - 03/04/2020 10:31 AM - Greg Shah

- Status changed from Test to Closed

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