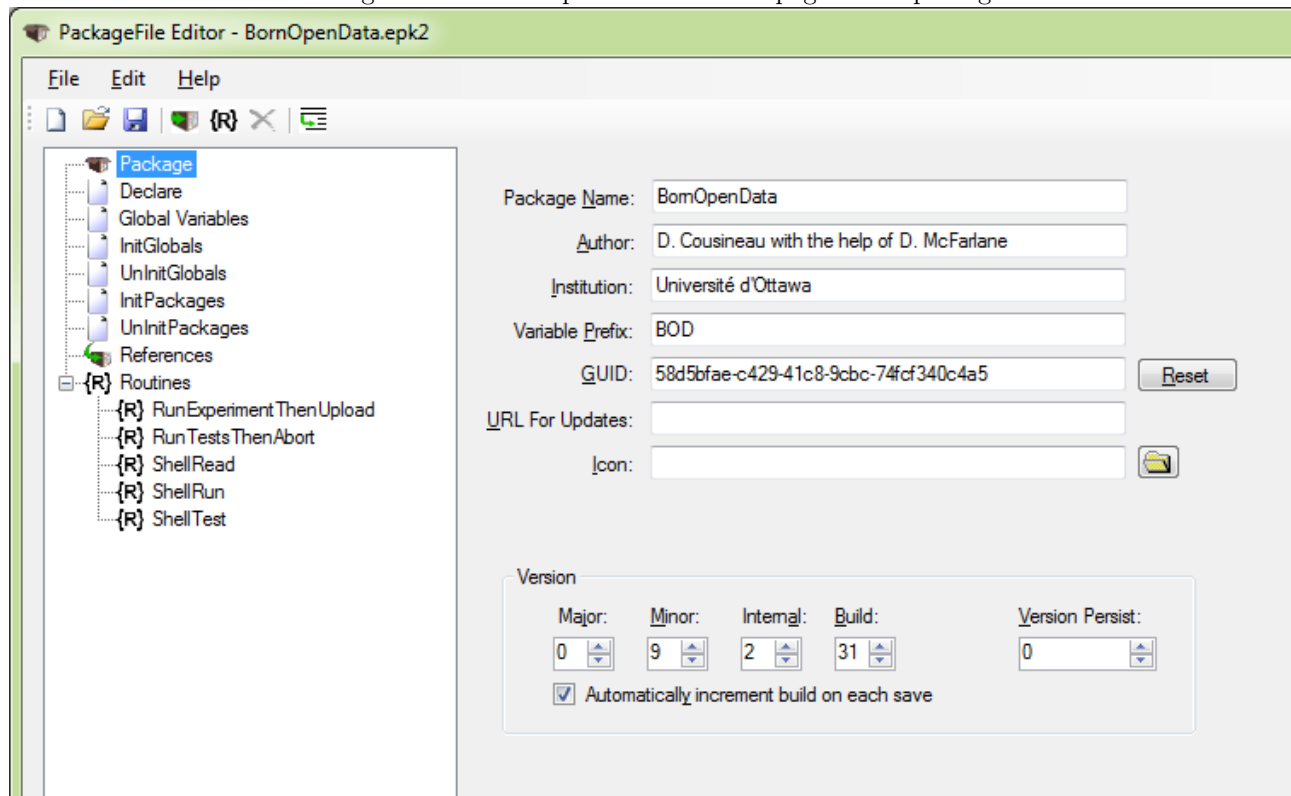


Born-Open Data for E-Prime: Source code of the package

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This document is just a series of cut-and-paste of the code found in the BornOpenData package for E-Prime version 2 (file BornOpenData.epk2). It is accessible to those who have an E-Prime license, but for the benefit of all, I reproduce it here. The code refers to the sections seen in Figure 1, left column. Note that some of the sections are empty; only comments are present.

Figure 1: Screen capture of the main page of the package.



Listing 1: Code for the 'Declare' section

```
1 '*****  
2 ' The following code is from the package BornOpenData.epk2  
3 ' this is the "Declare" declation section  
4 '*****  
5  
6 ' No DLL to declare; no data structures needed.
```

Listing 2: Code for the ‘Global Variables’ section

```

1  '*****
2  ' The following code is from the package BornOpenData.epk2
3  ' this is the "Global Variables" declation section
4  '*****
5
6  'This section of script is inserted at the top section of the script.
7
8  'Store whether an upload must be done (0) of if we are in test mode (1)
9  Dim BOD_SkipUpload As Integer ' default 0 means that upload is performed
10
11 'Store the file base name of the data file and the experiment name
12 Dim BOD_fBasename As String
13 Dim BOD_eBasename As String
14
15 'Store subject and session numbers
16 Dim BOD_subj As Integer
17 Dim BOD_sess As Integer
18
19 'Store parameters from RunExperimentThenUpload
20 Dim BOD_User As String
21 Dim BOD_Password As String
22 Dim BOD_Experiment As String
23 Dim BOD_Owner As String
24
25 ' two ancilliary functions
26 Function BOD_hr(ByVal r As Integer)
27 If r = 0 Then
28     BOD_hr="Ok!"
29 Else
30     BOD_hr="no..."
31 End If
32 End Function
33
34 Sub BOD_PrintDiagnosticToDebug (ByRef result() As Integer)
35 debug.print "=====DIAGNOSTIC_RESULTS======"
36 debug.print "uuCMD_is_accessibleuuuuuuuuuuuu\t" & BOD_hr(result(1,1))
37 debug.print "uugit_is_installeduuuuuuuuuuuu\t" & BOD_hr(result(2,1))
38 debug.print "uucomputer_is_onlineuuuuuuuuuuuu\t" & BOD_hr(result(2,2))
39
40 debug.print "uuuser,owner,repoexist:uuuuuu\t" & BOD_hr(result(3,1))
41 debug.print "uuuser_cangit_add_a_file:uuuuuu\t" & BOD_hr(result(4,2))
42 debug.print "uuuser_cangit_committ_a_file:uu\t" & BOD_hr(result(4,3))
43 debug.print "uuuser_cangit_push_a_file:uuuuu\t" & BOD_hr(result(4,4))
44 debug.print "=====DIAGNOSTIC_COMPLETED======"
45 End Sub
46
47 ' In the script section of E-Prime, set BOD_Debug = 1 to activate debug prints in the debug panel.
48 Sub BOD_PrintToDebug(ByVal stringname As String, ByVal stringcontent As String, ByVal
    stringresult As Variant)
49 If BOD_Debug =1 Then
50     If stringcontent = "" Then

```

```

51         debug.print stringname
52     Else
53         debug.print stringname & ":_'" & stringcontent & "'_responded_" & stringresult
54     End If
55 End If
56 End Sub
57
58 '*****
59 ' The above code is from the package BornOpenData.epk2
60 ' this is the global variables declation section
61 '*****

```

Listing 3: Code for the ‘InitGlobals’ section

```

62 '*****
63 ' The following code is from the package BornOpenData.epk2
64 ' this is the "InitGlobals" declation section
65 '*****
66
67 ' Nothing to initialize prior to context setting

```

Listing 4: Code for the ‘UninitGlobals’ section

```

1 '*****
2 ' The following code is from the package BornOpenData.epk2
3 ' this is the "UninitGlobals" section
4 '*****
5
6 ' This section is the very last to run in the E-Prime script
7
8 ' Nothing to uninitialize

```

Listing 5: Code for the ‘InitPackages’ section

```

1 '*****
2 ' The following code is from the package BornOpenData.epk2
3 ' this is the "InitPackages" declation section
4 '*****
5
6 ' This section is the second to run in the E-Prime script
7
8 ' Nothing to initialize for the package

```

Listing 6: Code for the ‘UnInitPackages’ section

```

1 '*****
2 ' The following code is from the package BornOpenData.epk2
3 ' this is the "UnInitPackages" declation section
4 '*****
5
6 ' This section of script is inserted InLine inside the UnInitPackages routine generated by

```

```

7  ' E-Studio in the Full Script view.
8
9  ' This section is the second to last to run in the E-Prime script
10 ' At this time, the .edat2 datafile has been generated and closed so it can be manipulated.
11
12 ' in case RunTestsThenAbort is used.
13 If BOD_SkipUpload = 1 Then
14     GoTo BOD_end
15 End If
16
17 Dim result(7) As Integer
18 Dim compday As String, comptime As String, compname As String
19 Dim id As String
20 Const cmdstr1a As String = "date_/T"
21 Const cmdstr1b As String = "time_/T"
22 Const cmdstr1c As String = "set_computername"
23 Const cmdstr2 As String = "rmdir_/s_/q_localRep"
24 Dim cmdstr3a As String
25 Const cmdstr3b As String = "mkdir_LocalRep\\rawdata"
26 Dim cmdstr4 As String
27 Dim cmdstr5 As String
28 Dim cmdstr6 As String
29 Const cmdstr7 As String = "cd_LocalRep_&_git_push"
30
31
32 ' 1- Get some identifiers
33 compday = BornOpenData_ShellRead(cmdstr1a) ' date
34 comptime = BornOpenData_ShellRead(cmdstr1b) ' time
35 compname = BornOpenData_ShellRead(cmdstr1c) ' computer name
36 id = "BornOpenData4E-Prime_uploaded_SUBJECT=" + CStr(BOD_subj) + ",_SESSION=" + CStr(BOD_sess)
37     + "_from_" + compname + "_on_DATE=" + compday + ":" + comptime + "_RND=" + CStr(Random
38     (0,1000))
39 BOD_PrintToDebug "id\t\t", id, 0
40
41 ' 2- if subfolder localRep exists, delete it
42 result(2) = BornOpenData_ShellTest(cmdstr2) 'rmdir ...
43 BOD_PrintToDebug "cmdstr2\t", cmdstr2, result(2)
44
45 ' 3a- git clone ...
46 If BOD_Password = "" Then
47     cmdstr3a = "git_clone_-q_" & "file://" + trim(BOD_Owner) + "\\ " + trim(BOD_Experiment) + " " &
48     "localRep"
49 Else
50     cmdstr3a = "git_clone_-q_" & "https://" + trim(BOD_User) + ":" + trim(BOD_Password) + " " &
51     "github.com/" + trim(BOD_Owner) + "/" + trim(BOD_Experiment) + " " & "localRep"
52 End If
53 result(3) = BornOpenData_ShellTest(cmdstr3a) ' git clone ...
54 BOD_PrintToDebug "cmdstr3a\t", cmdstr3a, result(3)
55
56 ' 3b- if subfolder rawdata does not exist, create it
57 result(3) = BornOpenData_ShellTest(cmdstr3b)
58 result(3) = BornOpenData_ShellTest(cmdstr3b)

```

```

55 BOD_PrintToDebug "cmdstr3b\t", cmdstr3b, result(3) ' mkdir LocalRep\rawdata
56
57
58 ' 4- Do git add fBasename + .edat2
59 ' 4a- Copy edat* file
60 cmdstr4 = "copy_" + BOD_fBasename + ".edat?_localRep\rawdata_&_cd_localRep_&_git_add_rawdata\\"
    " + BOD_fBasename + ".edat?_&_cd_.."
61 result(4) = BornOpenData_ShellTest(cmdstr4)
62 BOD_PrintToDebug "cmdstr4\t", cmdstr4, result(4) ' copy then git add
63 ' 4b- Copy txt file
64 cmdstr4 = "copy_" + BOD_fBasename + ".txt_localRep\rawdata_&_cd_localRep_&_git_add_rawdata\\"
    + BOD_fBasename + ".txt_&_cd_.."
65 result(4) = BornOpenData_ShellTest(cmdstr4)
66 BOD_PrintToDebug "cmdstr4\t", cmdstr4, result(4) ' copy then git add
67
68 ' 5- update subjectsLog.txt
69 ' '''-2-''' subjectLog content
70 ' '''BornOpenData_ShellRun "echo Uploaded " + BOD_fBasename + ".edat2: " + BOD_hr(result(6)) + " >>
    Status.txt"
71 BornOpenData_ShellRun "echo_" + BOD_eBasename + "\t" + CStr(BOD_subj) + "\t" + CStr(BOD_sess)
    + "\t" + compday + "\t" + comptime + "\t" + compname + "\tUploaded_>>_localRep\
    subjectsLog.txt"
72 cmdstr5 = "cd_localRep_&_git_add_subjectsLog.txt_&_cd_.."
73 result(5) = BornOpenData_ShellTest(cmdstr5)
74 BOD_PrintToDebug "cmdstr5\t", cmdstr5, result(5) ' git add
75
76 ' 6- Do git commit --message "adding subject, session from COMPUTER"
77 cmdstr6 = "cd_localRep_&_git_commit_--message=" + id + "\"_&_cd_.."
78 result(6) = BornOpenData_ShellTest(cmdstr6) ' git commit
79 BOD_PrintToDebug "cmdstr6\t", cmdstr6, result(6)
80
81 ' 7- Do git push
82 result(7) = BornOpenData_ShellTest(cmdstr7) ' cd then git push
83 BOD_PrintToDebug "cmdstr7\t", cmdstr7, result(7)
84
85 BOD_end:
86 ' ''' Clean up my place
87 BornOpenData_ShellRun "rmdir_/s_/q_localTestRep"
88 BornOpenData_ShellRun "rmdir_/s_/q_localRep"
89 BOD_PrintToDebug "UUUUUCleaned_up_temporary_folders", "", ""
90
91
92 '*****
93 BOD_PrintToDebug ">>_UnInitPackages_section_of_BornOpenData_package_completed...", "", ""
94 '*****
95
96 '*****
97 ' The above code is from the package BornOpenData.epk2
98 ' this is the UnInitPackages section
99 '*****

```

Listing 7: PreRun code for the 'RunExperimentThenUpload' section

```

1  '*****
2  ' The following code is from the package BornOpenData.epk2
3  ' This is the PreRun code of the sub BornOpenData_RunExperimentThenUpload
4  '*****
5
6  ' It has to be in PreRun because the context c is a local variable
7
8  ' Get base file name for the datafile
9  BOD_fBasename = c.GetAttrib("Datafile.BaseName")
10 BOD_eBasename = c.GetAttrib("Experiment")
11
12 ' Get subject and session number
13 BOD_subj = c.GetAttrib("Subject")
14 BOD_sess = c.GetAttrib("Session")
15
16 '*****
17 ' The above code is from the package BornOpenData.epk2
18 ' This is the PreRun code of the sub BornOpenData_RunExperimentThenUpload
19 '*****

```

Listing 8: Code for the 'RunExperimentThenUpload' section

```

1  '*****
2  ' The following code is from the package BornOpenData.epk2
3  ' this is the script section of the sub RunExperimentThenUpload
4  '*****
5
6  'Store parameters from RunExperimentThenUpload into global variables
7  BOD_User = user
8  BOD_Password = password
9  BOD_Experiment = experiment
10 BOD_Owner = owner
11
12 ' show some debug information if requested
13 BOD_PrintToDebug "User\t\t", "BOD_User", BOD_User
14 BOD_PrintToDebug "Password\t", "BOD_Password", BOD_Password
15 BOD_PrintToDebug "Experiment\t", "BOD_Experiment", BOD_Experiment
16 BOD_PrintToDebug "Owner\t\t", "BOD_Owner", BOD_Owner
17
18 ' those were set from PreRun as they require an active context
19 BOD_PrintToDebug "Filename\t", "c.GetAttrib("Datafile.BaseName")", BOD_fBasename
20 BOD_PrintToDebug "Subject\t", "c.GetAttrib("Subject")", BOD_subj
21 BOD_PrintToDebug "Session\t", "c.GetAttrib("Session")", BOD_sess
22
23 BOD_PrintToDebug ">>>_Script_section_of_RunExperimentThenUpload_completed...", "", ""
24
25
26 '*****
27 ' The above code is from the package BornOpenData.epk2
28 ' this is the script section of the sub RunExperimentThenUpload
29 '*****

```

Listing 9: PreRun code for the ‘RunTestsThenAbort’ section

```

1  '*****
2  ' The following code is from the package BornOpenData.epk2
3  ' This is the PreRun code of the sub BornOpenData_RunTestsThenAbort
4  '*****
5
6  ' It has to be in PreRun because the context c is a local variable
7
8  ' Get base file name for the datafile
9  BOD_fBaseline = c.GetAttrib("Datafile.BaseName")
10 BOD_eBaseline = c.GetAttrib("Experiment")
11
12 ' Get subject and session number
13 BOD_subj = c.GetAttrib("Subject")
14 BOD_sess = c.GetAttrib("Session")
15
16 '*****
17 ' The above code is from the package BornOpenData.epk2
18 ' This is the PreRun code of the sub BornOpenData_RunTestsThenAbort
19 '*****

```

Listing 10: Code for the ‘RunTestsThenAbort’ section

```

1  '*****
2  ' The following code is from the package BornOpenData.epk2
3  ' this is the script section of the sub RunTestsThenAbort
4  '*****
5
6  Dim id As Variant
7  Dim result(5,5) As Integer
8  Dim compday As String, comptime As String, compname As String
9
10 Const cmdstr0 As String = "echo_Is_it_running_this?"
11 Const cmdstr1a As String = "date_/T"
12 Const cmdstr1b As String = "time_/T"
13 Const cmdstr1c As String = "set_computername"
14 Const cmdstr2a As String = "git_--version"
15 Const cmdstr2b As String = "ping_www.github.com_-n_1"
16 Dim cmdstr3a As String
17 Dim cmdstr4a As String
18 Const cmdstr4b As String = "cd_LocalTestRep_&_git_add_testBornOpenData.txt"
19 Dim cmdstr4c As String
20 Const cmdstr4d As String = "cd_LocalTestRep_&_git_push"
21 Dim cmdstr4e As String
22
23 ' " PART 1 " " Is the terminal accessible ? '
24 result(1,1) = BornOpenData_ShellTest(cmdstr0)
25 BOD_PrintToDebug "cmdstr0", cmdstr0, result(0,0)
26
27 ' " Get some identifiers '

```

```

28 compday = BornOpenData_ShellRead(cmdstr1a)
29 comptime = BornOpenData_ShellRead(cmdstr1b)
30 compname = BornOpenData_ShellRead(cmdstr1c)
31
32 ''' PART 2 ''' Run basic tests '''
33 result(2,1) = BornOpenData_ShellTest(cmdstr2a)
34 BOD_PrintToDebug "cmdstr2a", cmdstr2a, result(2,1)
35 result(2,2) = BornOpenData_ShellTest(cmdstr2b)
36 BOD_PrintToDebug "cmdstr2b", cmdstr2b, result(2,2)
37
38 ''' PART 3 ''' Test that the user can clone from the GitHub repository '''
39 If password = "" Then
40     cmdstr3a = "git clone -q "file://" + trim(owner) + "/" + trim(experiment) + ""_
        LocalTestRep"
41 Else
42     cmdstr3a = "git clone -q "https://" + trim(User) + ":" + trim>Password) + "@github.com/"
        + trim(owner) + "/" + trim(experiment) + ""_LocalTestRep"
43 End If
44 result(3,1) = BornOpenData_ShellTest(cmdstr3a)
45 BOD_PrintToDebug "cmdstr3a", cmdstr3a, result(3,1)
46
47 ''' PART 4 ''' Test that the user can upload a dummy file to the GitHub repository '''
48 ' echo Test of BornOpen on computer xx on date xx > testBornOpenData.txt
49 id = "Test_of_BornOpenData_for_" + trim(BOD_eBasename) + "_on_" + compname + "_on_DATE=" +
        compday + ":" + comptime + "_RND=" + CStr(Random(0,1000))
50 cmdstr4a = "cd LocalTestRep_& echo_" + id + "_>_testBornOpenData.txt"
51 result(4,1) = BornOpenData_ShellTest(cmdstr4a)
52 BOD_PrintToDebug "cmdstr4a", cmdstr4a, result(4,1)
53
54 ' git add testBornOpenData.txt
55 result(4,2) = BornOpenData_ShellTest(cmdstr4b)
56 BOD_PrintToDebug "cmdstr4b", cmdstr4b, result(4,2)
57
58 ' git commit --message="Test of BornOpen on computer xx on date xx"
59 cmdstr4c = "cd LocalTestRep_& git commit --message=" + id + ""_"
60 result(4,3) = BornOpenData_ShellTest(cmdstr4c)
61 BOD_PrintToDebug "cmdstr4c", cmdstr4c, result(4,3)
62
63 ' git push
64 result(4,4) = BornOpenData_ShellTest(cmdstr4d)
65 BOD_PrintToDebug "cmdstr4d", cmdstr4d, result(4,4)
66
67 ''' PART 5 ''' All tests completed '''
68 ' Print the diagnostic results into the debug window
69 BOD_PrintDiagnosticToDebug result
70
71 msgbox "BornOpenData_diagnostic_completed._Consult_the_Debug_tab_of_the_Output_in_E-Studio._
        Experiment_aborting..."
72
73 ' skip upload then end this part of E-Prime
74 BOD_SkipUpload = 1
75 End

```



```

76 ' this will nonetheless perform UninitPackages and UninitGlobals
77
78 '*****
79 ' The above code is from the package BornOpenData.epk2
80 ' this is the script section of the sub RunTestsThenAbort
81 '*****

```

Listing 11: Code for the 'ShellRead' section

```

1 ' Function ShellRead(cmdstr As String) As String
2
3 ' This function sends a command to the terminal (CMD.exe) then fetch the response
4
5 Dim id As Variant
6 Dim response As String
7 Dim cmd As String
8 Dim curfolder As String
9 Dim i As Integer
10 Const imax As Integer = 1000
11 Const tempfile As String = "_!_tempfile!_.dat"
12
13 ' get the current folder and remove the file containing the result
14 id = Shell("cmd_/c_cd_/_" + tempfile)
15 sleep 250
16 Open tempfile For Input As #1
17 Input #1, curfolder
18 Close #1
19 id = Shell("cmd_/c_del_" + tempfile)
20 sleep 250
21
22 ' Build the command string
23 cmd = "cmd_/c_" + cmdstr + "_>_" + curfolder + "\\\" + tempfile
24
25 ' run the command string and get the result
26 i = 0
27 id = Shell(cmd)
28 While (i < imax) And Not(fileExists(tempfile))
29     i = i + 1
30     sleep 25
31 Wend
32 If i = imax Then
33     msgbox "Unexpected_delay"
34 End
35 End If
36 sleep 50
37
38 Open tempfile For Input As #1
39 Input #1, response
40 Close #1
41
42 ' remove the file containing the result
43 id = Shell("cmd_/c_del_" + tempfile)

```

```

44 sleep 250
45
46 BornOpenData_ShellRead= response
47
48 ' End Function

```

Listing 12: Code for the ‘ShellRun’ section

```

1 ' Sub ShellRun(cmdstr As String)
2
3 ' This function sends a command to the terminal (CMD.exe)
4
5 Dim id As Variant
6 Dim cmd As String
7
8 ' Build the command string
9 cmd = "cmd_□/□" + cmdstr
10
11 ' run the command string
12 id = Shell(cmd)
13 sleep 500
14
15 ' End sub

```

Listing 13: Code for the ‘ShellTest’ section

```

1 'Function BornOpenData_ShellTest(cmdstr As String) As Integer
2
3 ' This function sends a command to the terminal (CMD.exe) to test that it worked
4
5 Dim id As Variant
6 Dim status As Integer
7 Dim curfolder As String
8 Dim cmd As String
9 Dim i As Integer
10 Const imax As Integer = 1000
11 Const tempfile As String = "_!_tempfile!_.dat"
12
13 ' get the current folder and remove the file containing the result
14 id = Shell("cmd_□/□cd_□>□" + tempfile)
15 sleep 250
16 Open tempfile For Input As #1
17 Input #1, curfolder
18 Close #1
19 id = Shell("cmd_□/□del_□" + tempfile)
20 sleep 250
21
22 ' Build the command string
23 cmd = "cmd_□/□" + cmdstr '+ " 2> nul 1> nul"
24 cmd = cmd + "□&&□" ' if the first command worked
25 cmd = cmd + "echo_0_□>□" + curfolder + "\\□" + tempfile
26 cmd = cmd + "□|□" ' if the first command did not work

```

```

27 cmd = cmd + "echo_1_>" + curfolder + "\\ " + tempfile
28
29 ' run the command string and get the result
30 i = 0
31 id = Shell(cmd)
32 While (i < imax) And Not(fileExists(tempfile))
33     i = i + 1
34     sleep 25
35 Wend
36 If i = imax Then
37     msgbox "Unexpected_delay"
38     End
39 End If
40 sleep 50
41
42 Open tempfile For Input As #1
43 Input #1, status
44 Close #1
45
46 ' remove the file containing the result
47 id = Shell("cmd_/c_del_" + tempfile)
48 sleep 250
49
50 BornOpenData_ShellTest = status
51
52 'End Function

```