

Our test example:

Propath:

```
c:\Games\RCode Checker\Help\  
c:\Games\RCode Checker\Help\1\  
c:\Games\RCode Checker\Help\2\  
c:\Games\RCode Checker\Help\3\
```

Source structure:

Date	Time	Bytes	File name

c:\Games\RCode Checker\Help			
25.04.2004	17:45	21	include.i
c:\Games\RCode Checker\Help\1			
25.04.2004	17:43	59	a.p
25.04.2004	17:43	1437	a.r
25.04.2004	17:46	99	b.p
25.04.2004	17:46	1761	b.r
25.04.2004	18:06	38	c.p
25.04.2004	17:47	727	c.r
c:\Games\RCode Checker\Help\2			
25.05.2004	17:48	86	b.p
25.05.2004	17:46	1761	b.r
c:\Games\RCode Checker\Help\3			
25.04.2004	17:49	13	d.p
25.04.2004	18:05	783	e.r

RCode Checks

1) Not existing - if exist source and include files from RCode

File	Compiled Path	Date/Time	Size
a.r	c:\Games\RCode Checker\Help\1\ a.r	25.04.2004 17:43:54	1437
b.r	c:\Games\RCode Checker\Help\1\ b.r	25.04.2004 17:46:18	1761
c.r	c:\Games\RCode Checker\Help\1\ c.r	25.04.2004 17:47:08	727
b.r	c:\Games\RCode Checker\Help\2\ b.r	25.05.2004 17:46:18	1761
e.r	c:\Games\RCode Checker\Help\3\ e.r	25.04.2004 18:05:18	783
Not found	e.p		0

For the program "e.r" doesn't exist source "e.p". RCode Checker is checking also all used includes.

2) Duplicate - if exist deeper in path duplicate RCode

File	Compiled Path	Date/Time	Size
a.r	c:\Games\RCode Checker\Help\1\ a.r	25.04.2004 17:43:54	1437
b.r	c:\Games\RCode Checker\Help\1\ b.r	25.04.2004 17:46:18	1761
Duplicate .R	c:\Games\RCode Checker\Help\2\ b.r	25.05.2004 17:46:18	1761
c.r	c:\Games\RCode Checker\Help\1\ c.r	25.04.2004 17:47:08	727
b.r	c:\Games\RCode Checker\Help\2\ b.r	25.05.2004 17:46:18	1761

Checker found two duplicates "b.r", one in "c:\Games\RCode Checker\Help\1\" and second in "c:\Games\RCode Checker\Help\2\". This is not real error it depend on your development policy. Sometime is this information for me very useful.

3) Newer - if exist deeper in path newer RCode

File	Compiled Path	Date/Time	Size
a.r	c:\Games\RCode Checker\Help\1\ a.r	25.04.2004 17:43:54	1437
b.r	c:\Games\RCode Checker\Help\1\ b.r	25.04.2004 17:46:18	1761
Newer_R	c:\Games\RCode Checker\Help\2\ b.r	25.05.2004 17:46:18	1761
c.r	c:\Games\RCode Checker\Help\1\ c.r	25.04.2004 17:47:08	727
b.r	c:\Games\RCode Checker\Help\2\ b.r	25.05.2004 17:46:18	1761

Newer program "b.r" has been found deeper in our propath. Old has date 25.04.2004 17:46:18 and new one 25.05.2004 17:46:18. In this case old one has bigger priority and will be run which can be in most cases wrong.

4) File CRC - if some source isn't changed from last compilation

File	Compiled Path	Date/Time	Size
a.r	c:\Games\RCode Checker\Help\1\ a.r	25.04.2004 17:43:54	1437
CRC Ok	c:\Games\RCode Checker\Help\1\ a.p	25.04.2004 17:43:54	59
b.r	c:\Games\RCode Checker\Help\1\ b.r	25.04.2004 17:46:18	1761
CRC Ok	c:\Games\RCode Checker\Help\1\ b.p	25.04.2004 17:46:18	99
CRC Ok	c:\Games\RCode Checker\Help\include.i	25.04.2004 17:45:46	21
c.r	c:\Games\RCode Checker\Help\1\ c.r	25.04.2004 17:47:08	727
CRC Error	c:\Games\RCode Checker\Help\1\ c.p	25.04.2004 18:06:20	38
b.r	c:\Games\RCode Checker\Help\2\ b.r	25.05.2004 17:46:18	1761
CRC Ok	c:\Games\RCode Checker\Help\1\ b.p	25.04.2004 17:46:18	99

Program "c.p" was after last compilation changed and wasn't recompiled. In this check is used CRC calculation, not date comparsion.

5) Database CRC - if Database isn't changed from last compilation

File	Compiled Path	Date/Time	Size
a.r	c:\Games\RCode Checker\Help\1\ a.r	25.04.2004 17:43:54	1437
CRC Ok	DEMO.order		0
CRC Ok	DEMO.customer		0
CRC Error	DEMO.item - 08.05.2002 00:27:07	08.05.2002 20:52:40	0
b.r	c:\Games\RCode Checker\Help\1\ b.r	25.04.2004 17:46:18	1761

We make compilation of program "a.r" and then we make in database structure some changes. Specially in table ITEM. Then run our test which is comparing stored and real Database CRC. In time of compilation was last change in database 08.05.2002 00:27:07 but in current database was last change 07.05.2002 20:52:40. In moment of execution program "a.r" show error message and display that Database CRC Fail.

Source Checks

1) Not Compiled - if are sources compiled

File	Compiled Path	Date/Time	Size
a.p	c:\Games\RCode Checker\Help\1\ a.p	25.04.2004 17:43:54	59
b.p	c:\Games\RCode Checker\Help\1\ b.p	25.04.2004 17:46:18	99
c.p	c:\Games\RCode Checker\Help\1\ c.p	25.04.2004 18:06:20	38
b.p	c:\Games\RCode Checker\Help\2\ b.p	25.05.2004 17:48:00	86
d.p	c:\Games\RCode Checker\Help\3\ d.p	25.04.2004 17:49:02	13
Not found	d.r		0

You can see file "d.r" can't be found because not exist.

2) Duplicate - if exist deeper in path duplicate source

File	Compiled Path	Date/Time	Size
include.i	c:\Games\RCode Checker\Help\include.i	25.04.2004 17:45:46	21
a.p	c:\Games\RCode Checker\Help\1\1.a.p	25.04.2004 17:43:54	59
b.p	c:\Games\RCode Checker\Help\1\1.b.p	25.04.2004 17:46:18	99
Duplicate .P	c:\Games\RCode Checker\Help\2\2.b.p	25.05.2004 17:48:00	86
c.p	c:\Games\RCode Checker\Help\1\1.c.p	25.04.2004 18:06:20	38
b.p	c:\Games\RCode Checker\Help\2\2.b.p	25.05.2004 17:48:00	86
d.p	c:\Games\RCode Checker\Help\3\3.d.p	25.04.2004 17:49:02	13

Program found two duplicates "b.p" one in "c:\Games\RCode Checker\Help\1\" and second in "c:\Games\RCode Checker\Help\2\". This is not real error it depend on your development policy.

3) Newer - if exist deeper in path newer source

File	Compiled Path	Date/Time	Size
include.i	c:\Games\RCode Checker\Help\include.i	25.04.2004 17:45:46	21
a.p	c:\Games\RCode Checker\Help\1\1.a.p	25.04.2004 17:43:54	59
b.p	c:\Games\RCode Checker\Help\1\1.b.p	25.04.2004 17:46:18	99
Newer .P	c:\Games\RCode Checker\Help\2\2.b.p	25.05.2004 17:48:00	86
c.p	c:\Games\RCode Checker\Help\1\1.c.p	25.04.2004 18:06:20	38
b.p	c:\Games\RCode Checker\Help\2\2.b.p	25.05.2004 17:48:00	86
d.p	c:\Games\RCode Checker\Help\3\3.d.p	25.04.2004 17:49:02	13

Newer source "b.p" has been found deeper in propath. It this case can happen that you edit old source but new one exist deeper in the path.