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## Windows Research Kernel

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cantasan99

**Windows Research Kernel**

Tue Jul 30, 2013 12:00 pm

I have Windows Research Kernel 1.2 on Windows 7. How can I compile it? Is there a tutorial?  
Have a nice day!



cantasan99  
A Turkish tester for BetaArchive  
made by zacb27

Turkish translator of Wine/Known as ctasan in ReactOS Forum  
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George\_528

## Re: Windows Research Kernel

Tue Jul 30, 2013 12:04 pm

I found some informations about this here:

[http://www.osnews.com/story/20548/Windo ... ch\\_Kernel/](http://www.osnews.com/story/20548/Windo ... ch_Kernel/)

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**Main Client Operating System: Windows 8 Pro x64**

**Main Server Operating System: Windows Home Server 2011 with Update Rollup 4 on Desktop Computer**

Computer addict, Web Designer and Advanced Programmer.



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cantasan99



## Re: Windows Research Kernel

Tue Jul 30, 2013 12:09 pm

I said: "Is there a tutorial?" Please, be careful, okay?



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George\_528



## Re: Windows Research Kernel

Tue Jul 30, 2013 12:12 pm

I don't know, I found very little informations about Research Kernel. :\

---

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Computer addict, Web Designer and Advanced Programmer.



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cantasan99



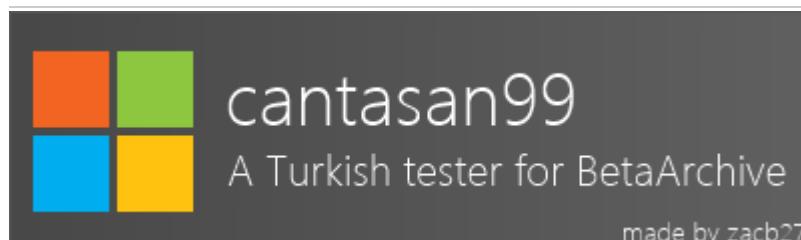
### Re: Windows Research Kernel

■ Tue Jul 30, 2013 12:20 pm

And I searched the forum and I couldn't find a tutorial.

Offtopic Comment

My 350th post!



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hounsell



### Re: Windows Research Kernel

■ Tue Jul 30, 2013 12:28 pm

...

Good god. If you cannot work out the WRK's reasonably simple build system, what are you doing trying to compile a kernel in the first place?



---

cantasan99



### Re: Windows Research Kernel

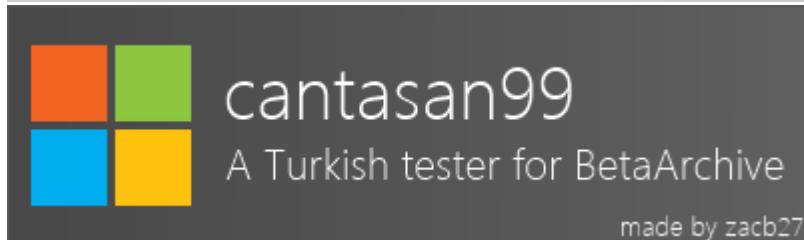
■ Tue Jul 30, 2013 12:30 pm

“ hounsell wrote:

...

Good god. If you cannot work out the WRK's reasonably simple build system, what are you doing trying to compile a kernel in the first place?

I'm asking to you, I don't know it.



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**puremagic**



## Re: Windows Research Kernel

■ Tue Jul 30, 2013 12:50 pm

The build instructions are in the README.txt that comes with it, near the end.

**CODE: SELECT ALL**

\*\*\*

Building/deploying a WRK kernel for x86 [or amd64]

0. Copy the WRK into a directory, say %wrk%.
1. set arch=x86 [or amd64]
2. path %wrk%\tools\%arch%;%path%
3. cd %wrk%\base\ntos
4. nmake -nologo %arch%  
will produce kernel files in BUILD\EXE\%arch%  
[wrkx86.\* or wrkx64.\*]
5. copy the kernel to %SystemRoot%\system32\
6. if x86, find the Multi-processor version of hal.dll [see below]
7. add a line to C:\boot.ini of the target system



**cantsan99**



## Re: Windows Research Kernel

■ Tue Jul 30, 2013 12:53 pm

“ puremagic wrote:

The build instructions are in the README.txt that comes with it, near the end.

**CODE: SELECT ALL**

\*\*\*

Building/deploying a WRK kernel for x86 [or amd64]

0. Copy the WRK into a directory, say %wrk%.
1. set arch=x86 [or amd64]
2. path %wrk%\tools\%arch%;%path%
3. cd %wrk%\base\ntos
4. nmake -nologo %arch%=  
will produce kernel files in BUILD\EXE\%arch%  
[wrkx86.\* or wrkx64.\*]
5. copy the kernel to %SystemRoot%\system32\
6. if x86, find the Multi-processor version of hal.dll [see below]
7. add a line to C:\boot.ini of the target system

I remembered this readme, but I couldn't understand how to perform it.



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hounsell



## Re: Windows Research Kernel

Tue Jul 30, 2013 1:02 pm

cantasan99 wrote:

I remembered this readme, but I couldn't understand how to perform it.

Then I say again, why are you trying to compile a kernel?

If those simple instructions are beyond you - they only require a vague familiarity with cmd.exe syntax - then the inner workings of a kernel or modifying C code is going to knock you for six and bury the corpse.

cantsan99



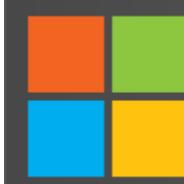
## Re: Windows Research Kernel

Tue Jul 30, 2013 1:16 pm

I looked again and understood some of steps, but I couldn't understand step 6 to 10. I will build the kernel for my use.

And a question: I didn't understand step 1 properly. After step 0, should I write "set arch=x86 [or amd64]" in the %wrk% kernel?

Thanks for helping.



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hounsell



### Re: Windows Research Kernel

■ Tue Jul 30, 2013 1:26 pm

» cantasan99 wrote:

I will build the kernel for my use.

And a question: I didn't understand step 1 properly. After step 0, should I write "set arch=x86 [or amd64]" in the %wrk% kernel?

Thanks for helping.

Why? You are aware there is no advantage to running the WRK in your Server 2003 installation (which I seriously hope to god you don't use as a main OS anyway).

You need to look up environmental variables in Windows.

And then there's a lot more in between that and understanding a kernel.



cantasan99



### Re: Windows Research Kernel

■ Tue Jul 30, 2013 1:28 pm

I will make this kernel for testing.

And, environmental variables? What do you mean?



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hounsell



## Re: Windows Research Kernel

Tue Jul 30, 2013 1:33 pm

**cantasan99 wrote:**

I will make this kernel for testing.

Test what? It's the same as 2003 SP1, give or take. That's the whole point of it.

**cantasan99 wrote:**

And, environmental variables? What do you mean?

My point.



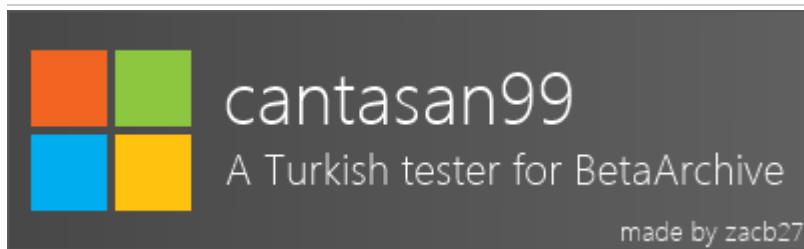
cantasan99



## Re: Windows Research Kernel

Tue Jul 30, 2013 1:35 pm

Your point? Do you mean your sites?



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AlphaBeta

Donator



## Re: Windows Research Kernel

Tue Jul 30, 2013 1:36 pm

I think hounsell meant that you don't know what are environment variables.

AlphaBeta, stop brainwashing me immediately!

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**Pwned**

Donator



## Re: Windows Research Kernel

■ Tue Jul 30, 2013 1:37 pm

**cantasan99 wrote:**

Your point? Do you mean your sites?

To explain it easier: you don't really need to compile anything, if you don't know how to do that. Learn stuff first.

[Longhorn Packet 1.21](#) - Solves most of the problems with Longhorn Setup

[GUIDE] [How to dump clean/untouched images from CD discs](#)

[Longhorn Music Album \(FLAC\)](#) | 523.31 MB | 17 tracks | [Donators Discussion Forum](#)



**puremagic**



## Re: Windows Research Kernel

■ Tue Jul 30, 2013 1:39 pm

You're making hounsell's point for him. If you don't even know what environment variables are, it's *highly* unlikely you will have any benefits at all to compiling your own kernel, as you'd lack the knowledge to actually do something with it that doesn't consist of compiling the stock kernel and dropping it into an existing server 2003 install. Which is, as hounsell pointed out, not very useful at all, as the stock WRK kernel is almost exactly the 2003 kernel with some stuff stripped out.



**cantasan99**



## Re: Windows Research Kernel

■ Tue Jul 30, 2013 1:44 pm

I understand some of things...

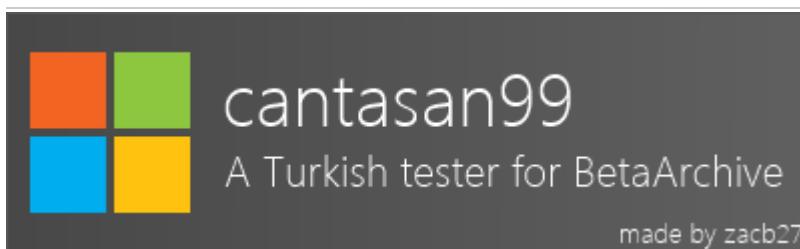
And I need to help, for testing and experience, I'll compile it. Later, I'll learn C and I can change kernel.

And I'm saying again:

I looked again and understood some of steps, but I couldn't understand step 6 to 10.  
And a question: I didn't understand step 1 properly. After step 0, should I write "set arch=x86 [or amd64]" in the %wrk% kernel?

Thanks for helping.

And I will look what are the environment variables.



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**George\_528**



### Re: Windows Research Kernel

Tue Jul 30, 2013 1:57 pm

With this program, you can make own kernel (like 9x or NT) ?

---

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Computer addict, Web Designer and Advanced Programmer.

**cantsan99**



### Re: Windows Research Kernel

Tue Jul 30, 2013 2:00 pm

NT kernel, Server 2003 SP1. And I need to read readme.txt properly and understand it.

And I looked to environmental variables. I know it but I didn't know its name 😊



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**AlphaBeta**



Donator



## Re: Windows Research Kernel

■ Tue Jul 30, 2013 2:04 pm

George\_528 wrote:

With this program, you can make own kernel (like 9x or NT) ?

It's the NT 5.2 SP1 kernel source code, released under Shared Source license.

Have a nice day!

---

AlphaBeta, stop brainwashing me immediately!

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**cantasan99**



## Re: Windows Research Kernel

■ Tue Jul 30, 2013 2:47 pm

And puremagic, can you post here full readme.txt file? I'm not in my house.



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**AlphaBeta**  
 Donator



## Re: Windows Research Kernel

Tue Jul 30, 2013 3:03 pm

Here you go: <http://pastebin.com/zULCHC2H>

---

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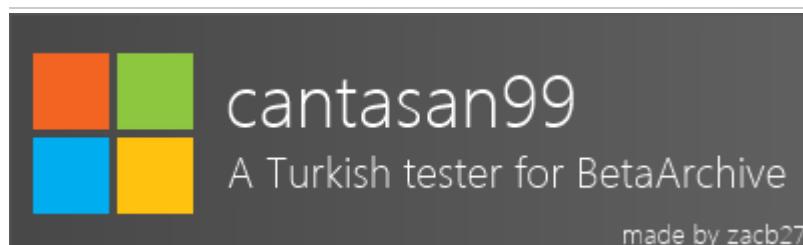
**cantasan99**



## Re: Windows Research Kernel

Tue Jul 30, 2013 3:07 pm

I can't view the page, so I will try from another computer.



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