



UTzone.de > News und Ankü UT2004 Max FPS & Con					Benutzername Benutz
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JT2004 Max FPS & on Ragnos 18.02.2019, 19	Connection Settings	Guide			
isclaimer: This is a copy of the U1 hould be preserved.	2004 Max FPS & Connection Settings G	Guide posted on the Unre	ealNorth.com-Forums by asc. I'm	posting this here since UnrealNort	h has been down for some time now, and I tr
ince there doesn't seem to	be a definitive guide on UT20	004 frame-rates ar	nd connection settings, I tl	nought I'd share what I fo	und to make everyone's online expe
	on as to what netspeed to us igned for PC's and networks o				ill put this to an end. Since this ga f current tech.
ettings to send more packenore often and more accura	ets of data. Why more packet	s? So that the gar s, the weapons fire	me doesn't have to wait as e rates are independent of	long to send your 'hit dat	ed a high stable frame-rate and to a' to the server – meaning that you ne-rate, or packets sent/s, meaning
	capped to 85fps. This sends a) then the game will send 85				nt that data to the server. When th
low what if you want hig	ner frame-rate?				
ve found that the engine o	aps the online frame-rates to	these values:			
	f): 85, 93, 102, 113, 127, 14 ı): 90, 100, 111, 125, 142, 1				
So, $85 \text{fps} = (1/0.012 + 2),$	93fps = (1/0.011 + 2), 102fps	= (1/0.010 + 2),	etc.		
his can be changed via ut	2004.ini:				
Code:					
[Engine.LevelInfo] MaxClientFrameRate=85.0)				
et's say that you wanted : ou cannot pick whatever f		FrameRate=120 in	your ut2004.ini, you'll only	get 113fps in-game as tha	at's the next cap down according t
OK, so how do you work ou	which Netspeed to set?				
ser.ini:					
Code:					
[Engine.Player]					

Or, type: 'Netspeed xxxxx' in console. Or, bind to a key: 'key=Netspeed xxxxx'.

Each packet is 64 bytes. Your Netspeed is the maximum bytes of data you want to allow the game to send. Your netspeed can be calculated by: your FPS x 64. If your Netspeed is too low then the game will discard some game data before sending it to the server, which will result in a feeling similar to having packet loss. So for 113fps, you'll need a Netspeed of 113fps * 64bytes = 7232. But, this will keep your frame-rate at 85 because it is locked. To unlock this, enter a Netspeed of

So now at 113fps, you'll only be sending 57 packets/s. I recently found a way to increase this. To send 113 packets/s you'll need to change the **KeepAliveTime** va

ut2004.ini:

Code:
<pre>[IpDrv.TcpNetDriver] KeepAliveTime=</pre>

Set this to [s]0.009[/s] 0.007. You'll now send 113 packets/s at 113fps.

So far I've managed to find **stable frame-rates of up to 202fps** by changing the KeepAliveTime value. This sends 194 packets/s at 202fps – reducing latency to 5. minimum Netspeed of 13120. [s]I'm still not 100% sure on what KeepAliveTime is doing[/s] EDIT: (Epic recently stated it doesn't add any gameplay value – damn) does make the frame-rate more stable. At the default KeepAliveTime value with MaxClientRate=202 the fps would often jump to 230+fps and wouldn't feel smooth.

Here's a table with all the (amazing) info I've found:

	MaxClientFrameRate	KeepAliveTime	Netspeed >10k	Min. Netspeed	in-game fps	Packets/s	Latency (ms)
	205	0.004	Yes	13120	202	194	5.2
	205	0.005	Yes	13120	202	100	10.0
	170	0.005	Yes	10880	170	170	5.9
	170	0.006	Yes	10880	170	85	11.8
	150	0.005	Yes	10001	144	144	6.9
	150	0.006	Yes	10001	144	136	7.4
	150	0.007	Yes	10001	144	73	13.7
	130	0.006	Yes	10001	128	127	7.9
	130	0.007	Yes	10001	128	120	8.3
	130	0.008	Yes	10001	128	64	15.6
	115	0.007	Yes	10001	113	113	8.8
	115	0.008	Yes	10001	113	105	9.5
	115	0.009	Yes	10001	113	57	17.5
	102	0.008	Yes	10001	102	101	9.9
	102	0.009	Yes	10001	102	84	11.9
	102	0.010	Yes	10001	102	84	11.9
	102	0.200	Yes	10001	102	84	11.9
	92	0.010	Yes	10001	92	90	11.1
	92	0.200	Yes	10001	92	90	11.1
	92	0.200	No	5888	92	43	23.3
	85	0.010	No	5440	85	85	11.8
	85	0.200	No	5440	85	42	23.8
	85	0.200	Yes	10001	85	85	11.8
1							

I've not included values for 250fps or higher because I've not managed to get it stable. It jumps to 300+fps sometimes, also on some maps such as DM-1on1-Roughi 250fps.

Edit: It seems as though Nvidia users may need to put MaxClientFrameRate=200.0 instead of 202 or 205 to get a stable 200fps in-game. Same method might apply t values.

Edit, 250fps: If you'd like to try for 250fps then I've had someone tell me how they've managed to get it stable whilst sending 250 packet/s with these values: Maxi 250 with Nvidia), Netspeed >16000, KeepAliveTime= 0.003. As netspeed is >15000 then it might be a problem with some servers; you can however still keep the sam your packets sent to 125 packets/s by using KeepAliveTime= 0.004, which should be fine for 15000 netspeed.

Edit, HPET & 333fps:

I've found that enabling HPET in BIOS changed the frame-rate values needed in the ini. It makes the input lag from your machine more consistent as tested by noace less oscillation in frame-rate values with it on. I've also included frame-rate values of up to 333fps for anyone who's feeling adventurous.

To clarify, the latency in the table refers to the time between packets sent. Your ping to the server is another matter. The more packets you send per second the le or movement change needs to wait before your input is registered to the server. This may in-fact give you the feeling of a more stable ping. As the table shows, the become smaller as you go higher in frame-rate and packets/s sent. So, there isn't much point in trying to use 335fps or higher for example. It's best to stick to a fra that your machine and connection can handle stably.

[s]Another reason not to use 335fps or higher is that this would need a Netspeed value greater than 20,000. Servers by default allow a maximum Netspeed of 15,000 the admin; this could be changed to any value if the admin is willing.[/s] **Edit** – I've found I can set Netspeed above 20000 by adjusting the maximum limit in the UT. (MaxInternetClientRate=30000). Your upload is not limited by the server, however sending 333 packets per second will probably not go so well, but you're free to try **/Edit**

Also, the Netspeed values shown in the table are only the minimum values required to achieve said frame-rates and packets/s. It would be safer to use a higher value you'd like as long as it is within your connections' upload speed. Remember – Netspeed 20,000 is 20kb/s upload.

So, there you have it. You will need to check if you can achieve these frame-rates offline before you try online. You may need to reduce your graphics settings. Loo adjust settings according to the table above if needed.

Happy fragging.

Useful links:

- UnrealAdmin wiki, Netspeed Tutorial (UT)
- UT2004 TweakGuide
- Blur Busters Everything related to FPS & Refresh Rates
- AnandTech Exploring Input Lag Inside and Out

Note: I was using the 64bit version of UT2004 as it gave me a higher and more stable fps with the above settings.

-unrealist (asc)

Hits 21981 Kommentare 1

Kommentare

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+1 für's herüberretten von UnrealNorth die gerade down sind (bleiben?). TY \odot

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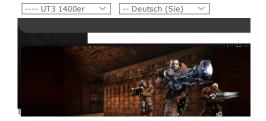
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