

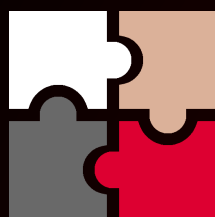
PROJECT HYDRA

OC-SANDBOX FOR ZEN3+ PROCESSORS

THE FIRST ALPHA VERSION IS AT THE END OF JULY

THIS PRESENTATION IS AN EARLY CONCEPT, THE FEATURES AND GUI ARE SUBJECT TO CHANGE DURING DEVELOPMENT

1USMUS 2021



PROJECT HYDRA – NEW PLATFORM, NEW FEATURES

- Exclusive APP for ZEN 3 and ZEN 3+ processors
- New platform, new UI, compact size
- Powerful customization for each profile
- 3 voltage curves (presets) for all profiles (undervolt, normal and OC)
- Up to 9 profiles (maximum performance in any task)
- Individual profiles for games and AVX2
- Curve Optimizer search tool for each core
- New diagnostic (all values are filled in automatically)
- All profiles can work in dynamic mode (unlocked CO in PRO version)

HYDRA 0.1A PRO

OC-SANDBOX FOR ZEN3

AMD Ryzen 9 5950X 16-Core Processor
ASUS ROG CROSSHAIR VIII DARK HERO BIOS ver. 3601 SMU ver. 56.53.00
Microsoft Windows NT 6.2.9200.0

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CCD1			35.3°			CCD2			37.4°			CCD3			----			CCD4			----		
C01	998	212	C05	103	190	C09	57	167	C13	117	158	----	---	---	----	---	---	----	---	---	----	---	---
C02	341	203	C06	78	194	C10	189	181	C14	188	154	----	---	---	----	---	---	----	---	---	----	---	---
C03	107	199	C07	84	185	C11	151	172	C15	336	163	----	---	---	----	---	---	----	---	---	----	---	---
C04	1037	212	C08	281	208	C12	1374	149	C16	142	176	----	---	---	----	---	---	----	---	---	----	---	---

CPU (%)

Vdroop (%)

CPU TEL (V)

CPU VID (V)

CPU TDC (A)

CPU EDC (A)

CPU PPT (W)

LOAD TYPE

THREADS	ENABLED	VID	CCD1	CCD2	DYNAMIC	CORE#	CO	CORE#	CO	THREADS	CO CCD1	CO CCD2
1T-2T	<input checked="" type="checkbox"/>	1375	4775	3400	<input checked="" type="checkbox"/>	C01	79	C09	157	ALL (AVX1)	78	55
3T-4T	<input checked="" type="checkbox"/>	1375	4775	3400	<input checked="" type="checkbox"/>	C02	130	C10	28	ALL (AVX2)	78	55
5T-8T	<input checked="" type="checkbox"/>	1300	4700	3400	<input checked="" type="checkbox"/>	C03	125	C11	141	ALL (GAME)	78	55
9T-12T	<input checked="" type="checkbox"/>	1300	4650	4550	<input checked="" type="checkbox"/>	C04	7	C12	152			
13T-16T	<input checked="" type="checkbox"/>	1250	4600	4500	<input checked="" type="checkbox"/>	C05	191	C13	198			
ALL (AVX1)	<input checked="" type="checkbox"/>	1100	4225	4100	<input checked="" type="checkbox"/>	C06	166	C14	129			
ALL (AVX2)	<input checked="" type="checkbox"/>	1000	3800	3725	<input checked="" type="checkbox"/>	C07	183	C15	175			
ALL (GAME)	<input checked="" type="checkbox"/>	1350	4800	4625	<input checked="" type="checkbox"/>	C08	87	C16	139			

STATUS : successfully saved!

🕒 HYBRID OC

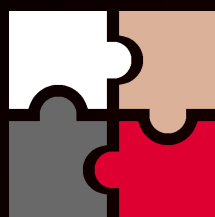
⚙️ SETTINGS

📄 LOGGING

🔬 DIAGNOSTIC

🔗 ANALYSE CO

📊 COMPARE



PROJECT HYDRA – NEW PLATFORM, NEW FEATURES

- Modular setup storage system (minimum chance of damaging configuration files)
- Ability to adjust the response speed and CAC-tolerances of the dynamic mode
- Event notification system
- Built-in failsafe's against system and user errors
- 24/7 monitoring of processor parameters and automatic shutdown of profiles in a critical situation
- Automatic loading of profiles with Windows startup
- Auto updates (PRO version)

HYDRA 0.1A PRO
OC-SANDBOX FOR ZEN3

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CCD1	35°	CCD2	33.9°	CCD3	----	CCD4	----
C01: 800 212		C09: 38 167		---		---	
C02: 51 203		C10: 9 181		---		---	
C03: 12 199		C11: 31 172		---		---	
C04: 234 212		C12: 672 149		---		---	
C05: 52 190		C13: 31 158		---		---	
C06: 40 194		C14: 33 154		---		---	
C07: 58 185		C15: 32 163		---		---	
C08: 80 208		C16: 128 176		---		---	

CPU (%) 1 Vdroop (%) -0.3 CPU TEL (V) 1.175 CPU VID (V) 1.171 CPU TDC (A) 12.8 CPU EDC (A) 93.5 CPU PPT (W) 55.6 LOAD TYPE IDLE

Auto-load APP with OS Max PPT (W) 200 OC response speed (ms) 15 CO testing

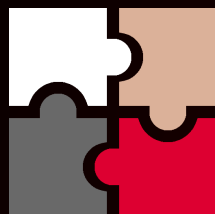
Auto-enable OC Max EDC (A) 200 GAME TRIGGER (%) 35 CO diagnostic speed -5

Notifications Max TDC (A) 140 GAME MODE Normal CO diagnostic mode AVX

Auto-check update Max temperature (°C) 95 AVX1 CAC threshold 10

Enhance accuracy Polling period (ms) 1000 AVX2 CAC threshold 19

HYBRID OC **SETTINGS** LOGGING DIAGNOSTIC ANALYSE CO COMPARE



PROJECT HYDRA – NEW PLATFORM, NEW FEATURES

- Updated logging system
- Simplified and more intuitive interface
- A new way to evaluate processor quality
- Updated monitoring is always with the user
- Real-time Vdroop information

HYDRA 0.1A PRO

OC-SANDBOX FOR ZEN3

AMD Ryzen 9 5950X 16-Core Processor
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Microsoft Windows NT 6.2.9200.0

CCD1 56.3°

C01	4700	212	C05	4700	190
C02	4700	203	C06	4700	194
C03	4700	199	C07	4700	185
C04	4700	212	C08	4700	208

CCD2 55.4°

C09	4625	167	C13	4625	158
C10	4625	181	C14	4625	154
C11	4625	172	C15	4624	163
C12	4625	149	C16	4625	176

CCD3 ----

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CCD4 ----

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---	---	---	---	---	---

CPU (%)

Vdroop (%)

CPU TEL (V)

CPU VID (V)

CPU TDC (A)

CPU EDC (A)

CPU PPT (W)

LOAD TYPE

C08	208	F 4280	F 4280	V 1.215	W 6.06	T 46.7
C09	167	F 4280	F 4280	V 1.215	W 4.77	T 44.93
C10	181	F 4280	F 4280	V 1.215	W 5.37	T 44.54
C11	172	F 4280	F 4280	V 1.215	W 5.44	T 47.77
C12	149	F 4280	F 4280	V 1.215	W 5.08	T 45.55
C13	158	F 4280	F 4280	V 1.215	W 4.86	T 46.66
C14	154	F 4280	F 4280	V 1.215	W 5.46	T 46.44
C15	163	F 4280	F 4280	V 1.215	W 5.17	T 46.51
C16	176	F 4280	F 4280	V 1.215	W 5.4	T 46.55

Start VID 1350
Start FREQ CCD#1 4625
Start FREQ CCD#2 4550
Vdroop: 1.85%
4650 1.196 / 4575 1.26 - PASSED
4675 1.211 / 4600 1.28 - PASSED
4700 1.225 / 4625 1.299 - PASSED
4725 1.24 / 4625 1.321 - PASSED

27%

STOP THE PROCESS

HYBRID OC

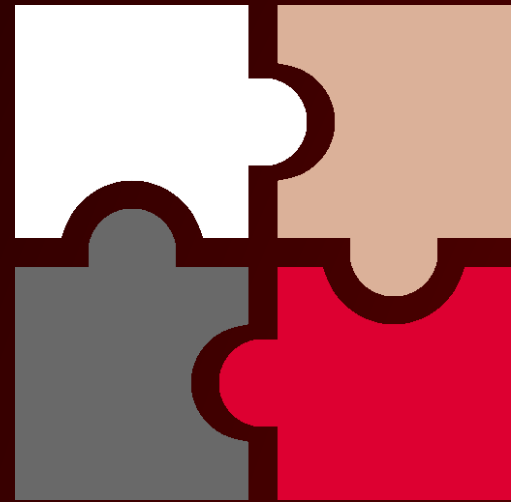
SETTINGS

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MORE INFORMATION AND FEATURES SOON

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