TEAMRGE EVENT 2024 WHERE FUTURE OF END USER COMPUTING MEETS REALITY

10+ community sessions around GPUs, VDI, DaaS, DEX, Remoting Protocols and AI



15th February 2024 16:00 CEST / 10:00AM EDT / 07:00AM PDT

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Dr. Benny Tritsch

Managing Director at

Dr. Tritsch IT Consulting

Joe DaSilva PMTS, Solutions Architect, Cloud Graphics at AMD



Johan van Amersfoort Technologist EUC & Al M at ITQ

Bram Wolfs

Consultant at

Wolfs IT Solutions



Eltjo van Gulik

Principal Product Manager

for HDX Graphics & Seamless at Citrix

Magnar Johnson Manager | Solution Architect Sopra Steria



Rody Kossen Senior Principal Quality Engineer at Citrix



Ruben Spruijt Field CTO at Dizzion



Ryan Ververs-Bijkerk Technical Evangelist at GO-INIT



Shawn Bass
Start-up advisor and
former EUC CTO of Desktop
Technologies at VMware



Thomas Poppelgaard Independent Consultant and Technology Evangelist at Poppelgaard.com



DEEPDIVE WITH AZURE NGADSV620 POWERED BY AMD RADEON V620 GPU



Joe DaSilva PMTS, Solutions Architect, Cloud Graphics at AMD



Ruben Spruijt Field CTO at Dizzion

This FREE community event is made possible with support of:









AGENDA

- I. AMD GPU-accelerated Instances for AAA Gaming and Design
- 2. User Experience, Performance and Costs with the Azure NGadsV620



Azure NGads V620-series

AMD GPU-accelerated Instances for AAA Gaming and Design

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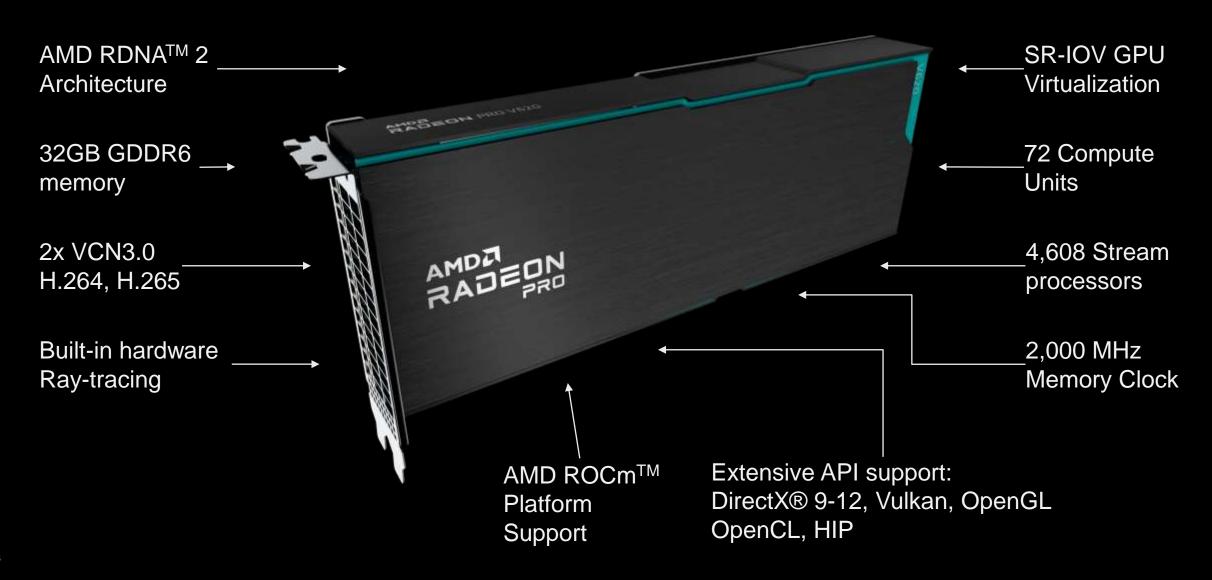
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Video codec acceleration (including at least the HEVC (H.265), H.264, VP9, and AV1 codecs) is subject to and not operable without inclusion/installation of compatible media players. GD-176.

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The AMD RadeonTM PRO V620 GPU

300W, full height, dual-slot, 10.5" Length, PCIe Gen4 x16



Azure® NGads V620 - Powered by AMD Radeon™ & AMD EPYC™ processors



Perfect for applications with...

- √ Graphics-intensive workloads
- ✓ Differing GPU requirements based on user type

Example workloads...

- √ Cloud Gaming
- √ GPU-accelerated VDI
- / Multi-session remote desktop
- √ Professional Rendering



AMD Radeon™ PRO V620 GPU // EPYC™ 7763 CPU



Regularly updated AMD Windows Gaming Drivers



Support for Windows Server, Windows Desktop, and Linux

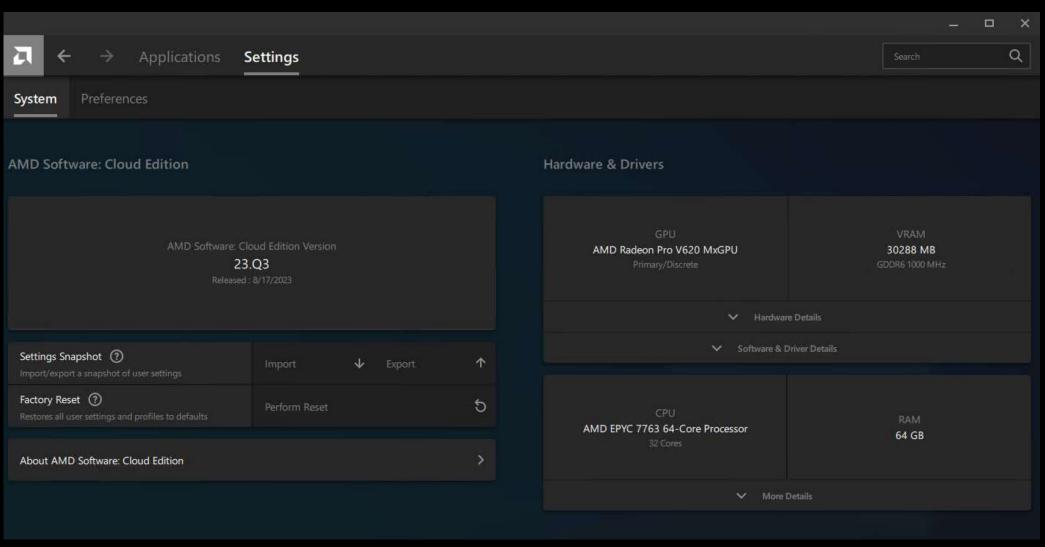


Bi-annual AMD PRO Drivers (Windows and Linux)

VM Name	NG8ads_V620	NG16ads_V620	NG32ads_V620	NG32adms_V620
GPU	1/4 V620 PCIe®	1/2 V620 PCIe®	1x V620 PCIe®	1x V620 PCIe®
GPU Memory per VM	8 GB	16 GB	32 GB	32 GB
CPU Cores	8	16	32	32
RAM	16 GB	32 GB	64 GB	176 GB
Temp Disk	256 GB	512 GB	1024 GB	1024 GB
NVMe Direct Disks	1x 960 GB	2x 960 GB	4x 960 GB	4x 960 GB
Max NICs / Expected b/w	2 / 10 GB/s	4 / 20 GB/s	8 / 40 GB/s	8 / 40 GB/s

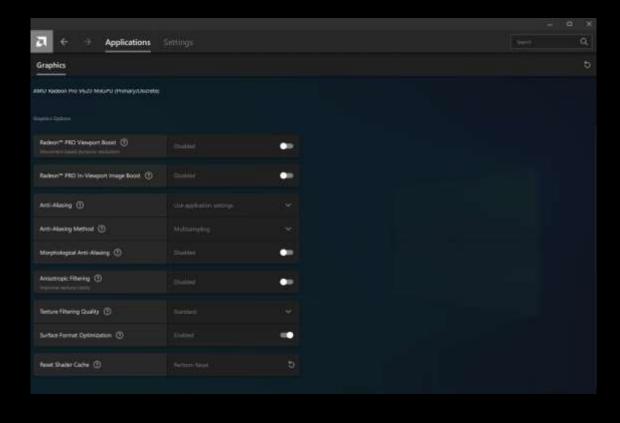
AMD Software: Cloud Edition

GPU and CPU Information



AMD Software: Cloud Edition

Global and application-specific graphics settings





AMD VIDEO ENCODER SUMMARY

Video Encoders	NAVI21
IP versions	VCN3.0
MM IPs	2 VCNs
H264 Encode	Bare Metal and SR-IOV 8-bit color depth
HEVC Encode	Bare Metal and SR-IOV 10-bit color depth
AV1 Encode	Not supported
SR-IOV Virtualized Encode	Yes
HW 2-pass encode	Yes
HW VBAQ – Variance based adaptive quantization	Yes
MB level RC for low-latency cloud gaming	Yes
HDR/WCG pre-processor for encode	Yes
Re-loadable search window	Yes
VP9 Encode	No

TOTAL THROUGHPUT

	NAVI21 2VCN
H.264 Encode	Up to 8b
1080p30	24 streams
1080p60	12 streams
4K60	2 streams
4K90	2 streams
H.265/HEVC Encode	Up to 10b
1080p30	24 streams
1080p60	12 streams
4K60	2 streams
4K90	2 streams

See endnote(s): GD-176.



VIRTUAL DISPLAYS

NGads Instance	Virtual Displays
NG8ads, ¼ GPU	1 - 2 displays, 1080p up to 60 fps
NG16ads, ½ GPU	1 display, 4K up to 60 fps 2 - 4 displays, 1080p up to 60 fps
NG32ads, Full GPU	1 - 2 displays, 4K up to 60 fps 3 - 4 displays, 1080p up to 60 fps

GPU MONITORING WITH AMD SMI

- System Management Interface (SMI) is a standard capability for future CG/VDI GPUs
 - API-based interface for simple integration with existing monitoring tools
- Provides consistent mechanism to access GPU information
 - Available from both host and guest (limited functionality from guest)
- Provides both static and dynamic data
 - Static data Board, VBIOS, firmware info, etc.
 - Dynamic data GPU and memory utilization, ECC error counts, etc

```
C:\Users\amd>amdsmi.exe static
GPU 0:
VALUES:
    ASIC:
       MARKET NAME: NAVI21
       VENDOR ID: 0x1002
        DEVICE ID: 0x73ae
        REV ID: 0x0
       ASIC_SERIAL: 0x55fc1b2e19c2595
    BUS:
        BDF: 0002:00:00.0
        PCIE LANES: 16
        PCIE SPEED: 16000 MT/s
    VBIOS:
       NAME:
       VERSION: 020.001.000.071
        BUILD DATE: 2023/02/06 10:09
        PART NUMBER: 113-D6030120-104
    DRIVER:
        DRIVER VERSION: 23.Q3
    RAS:
        SUPPORTED:
            DRAM ECC: N/A
            SRAM ECC: N/A
            POISONING: N/A
        ENABLED:
            DRAM ECC: N/A
            SRAM ECC: N/A
            POISONING: N/A
            NEEDS REBOOT: N/A
    CAPS:
        GFX IP COUNT: 2
        DMA IP COUNT: 4
        GFX:
            GFXIP MAJOR: 10
            GFXIP MINOR: 3
            GFXIP CU COUNT: 72
```

```
C:\Users\amd>amdsmi.exe metric
GPU 0:
VALUES:
    USAGE:
        GFX USAGE: 54 %
       MEM USAGE: N/A
       MM USAGE LIST: [0] %
    FB USAGE:
        FB_TOTAL: 15136 MB
        FB USED: 417 MB
```

AGENDA

- I. AMD GPU-accelerated Instances for AAA Gaming and Design
- 2. User Experience, Performance and Costs with the Azure NGadsV620







CPU-Z CineBench Crystal Disk Mark Blender BenchMark CPU/GPU **EUC Score IOMeter EUX Score – Login Enterprise SPEC 2020**

Enscape **Autodesk Inventor Autodesk Revit Autodesk VRED** Unreal Engine vRay KeyShot MacroRecorder

Azure AMD

DIZZI N OFRAME



GPU INSTANCE PERFORMANCE & COSTS - FULLHD

Patterna	GNI :	CPU Bass Clock Speed	single	ucese	Seek	Storige Spin	Manager Name	100	GPU RAM	(GPU Salver	Stephop	04	ukay S CPU	Willy G	nyebet it t-ceu ti	ryshet 20 L-OPU	REWIT REWIT 21 REGS RE- parate are (mec) (m	2021 Revi D- H sta co H2 (s	per Revit of D Biro ort Stand (co.	EZI Revit 26 EFO er Couples 1 (see)	m Nevit Jazza RFO 6 Maturio (sec)	WED 2023 - HO AA	VMID 2021- med AA	2021- Shri Shri Shri	AL- Lengto	inghe 25 April 4 85 ON	Decal Engles UK Audi KI UKF	Proceeding 2003 - Workelding	(manette 2023 - Chawing	Josephon JOSS FEA	MOST- NAM	Encenter 2021- Grouphics	inventor 2025 - ET	Inventor 2023 - Gata Translate	2003 Assq Fathern	Importation 2023 - Assay Constitution	tovertor is 2021 ST 20		Peter
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Apure NV5_s3	Intel Xoon 23-2696v3 - Hemarell	2.60 GHz	NOT THE		10.00	Standard-SSD	mare.	AVIDIA MOD	100	312.7V	THO	WHID 12H1	1794		E41	AND DE	March Street	established	1.0 141	41.6	4.0	343	20.6	13	41.00		26.1	746	218	200	965	3794	1111	597	326	100	CONTROL OF	****	777780
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Roune NVIII_XS	THE ROOM TO JOB OF HIS WIFE	ZAC DHE	3.3 SHI	111		Premium-15D	25668	AMD MICS	466	122.10.01.11	THO	WHID 22HZ	3943	-	525-10	Alteria	12.7 10	1.1	100	49.2	1.79	1134.5	25.9	26	42.1		28.3	806	200	700	871	1756	790	- 26	9.78	811	1942	H000	1.04
Aliane MVSML wf	AND EPIC TVIZ: Forse AND EPIC TVIZ: Forse	3.45 GHz	2.2 SHI	100	28 G B	111111111111111111111111111111111111111	-	AMD MIGS	200	12.10.01.11	INC		8272	MAIN CO.	124		17.6 38		100	444		100	-	-	200		78.9	100	-017	870	200	4448	1000	934	200	-	1000	TARK .	2.00
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	AMD SPYC TVLI - Forme			1	56 (48)	Premium 550	-	MY EDIA TA	3868	100.00	man.	WHI022HZ	4904	461		77.0	12.4 14		17 190	274	2.75	64.7	87.8	120	20.0	21.3	41.5	1000	70.0	100.7	1741	2000	-	479	-	11.00	10471	1000	2.24
Azure NCBesT4 v5 Azure NCBesT4 v5	AMERICANE FORE	2.40 GHz	3.3 (94)	1	C18-0x8	Interview 950	-	NVIDIA 74	3808	255.78	1140)		40.4	894	100	10.5	12.7	40	A7 84.5	27.2	2.00	66.5		17.6	76.7	74.8	40.0	100	707	960	1046	200	1304	- 9.01		2000	20472	1000	111
Apure Notisebship vis	AMD EPYC 76F3 - Millen	2.45-041	1.1.510	100	25 G B	Premium SSD	O SULUSION	WADWATERD	468	1812.70	Tries.	WHID 22HZ	1930	134	0.47	44.	10.00		110	20.7	1000	TOWN STATES	100	7000	70.5	19.0	The same	964	- 100	100	MAY.	690	274	75	220	A 100	10000	4665	6.34
		3.2 GHz	A POST	100	118 0/8	1111111111111111111	1000000		203	917.78	PHD	WHI022HI	7030	-	E EV	10.0	W2 11	T-10	162	87.1	A.18	18.3	75.4	19.3	500		27.6	1274	211	2100	1196	2618	1411	-	Total Control		10000	TORS	2.00
Apure MVIII ath A10, vt.	AMD EPYC 74F3 - Milan AMD EPYC 74F3 - Milan	3.2 GHz		142	440 G/B	-		WILLY	2468	18676	PHD.	WHID 2243	7930	STATE OF THE PARTY NAMED IN	2.56	11.7	0.0 10		30.0	33.6	2.11	38.1	20.4	15.1	31.7	-	88.9	3274	2007	1000	1525	2018	1411.	311	1300	11000	12/30	1000	2.52
Raine SV BladsA10_vS		3.2 GHz		100	16 G/6	Premains-15D	-		6 GH -	312,78	PHID:		8077	2504-71	100	22.4	10.0	200	1	25.8	2.00	186.2	700.5	61.1	196.2		25.7	11/13	1206	1000	11111111	BALE .	958	200	953	Ann	E2839	NAME OF TAXABLE PARTY.	240
Acure NGBarb_V638_x5	AMD EPYC 7763 - Genoa AMD EPYC 7763 - Genoa	2.45 GHz		-	na tale	Premium-55D		AMD V635 1/4 AMD V635 1/13		23.03	1110	Win10 22H2	8073	-	222	ren =	10.5 12	3.8 4.	1.0 /1.4	40.0	1.15	34.6	17.8	18.7	20.5	STATE OF THE PARTY NAMED IN	20.2	1111	878	2014	1342	2408	356	817	750	3537	10079	S/RZ	241
Abure has seeds 1420 vs		2.45 GHz		198	SAGE	Premium-SSD Premium-SSD		AMD V638 1/1	18-06	25.03	PHO	WHID 22HJ	12127		2.23	***	10.5	22 24	111	39.3	1.76	66.0	10.0	25.A	44.7	19.4	1000	201	1076	253	1493	2008	1462	543	1945	1200	11780	(NAC)	2.42
Azure NG32eds, (1620 vt.	AMO EPYC 7783 - Geros	ILAD DAT	3.5 940.	8.0	104 (316)	PTERRIUM-SSE	35666	AMD YOUR I/I	132 946	122.42	PHD.	(WHISO 224)	- Death		235		105 11	4	14 100	26.3	240	00.0	erro	-	and .	414	THE .	1000	THE	365	1300	SUR!	1000	22.0	Little	1 1287	LIES N	ALIKO	3.00
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HP 23 Mini Gil	retal Core 77-127006	0.0040	3.0-UHI	80.40	12 08	2007	210	AVIOLA TILDO	466	111.63	IHD:	WHILE	11263		33.05	ruju.	Al/A A	OK. A			B/W	38.7	36.4		86.7	_	III	111.1	1745	1,000	2171	Physics .	2307	140	1975	2163		14/6	N/A
Scart SKS-DWP-ME ALSC	39841 Core (5-13900K)	3.0 dMg	5.8 GH1	89-108	64-08	NVMe.	216	NVIDIA RTX AZIOD	1208	2014	PHD	WHEI.	36652	5013	33/00	Pire .	NYA N	A STA	A PGA	No.	R/M	08.2	55.1	11.7	74.2	_	43.1	1907	2300	1475	2601	Poyen.	5766	1741	2327	2012		NIA	N/A
Arman Magnetic M62TF-RW230863	AMI Faren Threadopper Pro Sincere	2.7600	43 SHI	80.	128 68		216	AMED Redwon Pro Wollow		32.43	IIHO:	WHILE	86481	N/A	N/A	ROW.	NA P	A	a Pera	RUA	H/A	44.1	90.9 90%	IN A PARTY OF THE	40.4	N/A	105.4	1941	1194	1112 A/A	N/A	DV/A	11764	1018	N/A	1761	NA/A	N/A	N/a.
Soun SKS GWP-ME AS LIZET	AMO Resen Threadripper Pro 3900 WK	2.7090	4.9 OHL	104	128 00	NVMk	pre:	NVIDIA RTX 6000 side	3908	120.24	PHD	WHILE	59962	5277	187,45	N/A	N/A N	AS UN	W. SOA	N/A	BIA.	.70/A	NOA.	N/A	N/A	N/A	THIN	N,08	-M/W	(MA)	N/A	N/A	70/A	NUM	FUW.	MA	ALIA	NIW	N/A
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	34.											
Instance	СРИ		Max CPU Speed - single- core	J vCPUs	RAM	Storage Type	Storage Size	GPU	GPU RAM	GPU Driver	Display	os
Microsoft Azure								ruben@fra.me				
Azure NV6_v3	Intel Xeon E5-2690v3 - Haswell	2.60 GHz	3.5 GHz	6	55 GiB	Standard-SSD	256GB	NVIDIA M60	8GB	512.78	FHD	Win10 22H2
Azure NV12_v3	Intel Xeon E5-2690v3 - Haswell	2.60 GHz	3.5 GHz	12	112 GiB	Standard-SSD	256GB	NVIDIA M60	8GB	512.78	FHD	Win10 22H2
Azure NV8as_v4	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	8	28 GiB	Premium-SSD	256GB	AMD MI25	4GB	22.10.01.11	FHD	Win10 22H2
Azure NV16as_v4	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	16	56 GiB	Premium-SSD	256GB	AMD MI25	8GB	22.10.01.11	FHD	Win10 22H2
Azure NC4asT4_v3	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	4	28 GiB	Premium-SSD	256GB	NVIDIA T4	16GB	512.78	FHD	Win10 22H2
Azure NC8asT4_v3	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	8	56 GiB	Premium-SSD	256GB	NVIDIA T4	16GB	512.78	FHD	Win10 22H2
Azure NC16asT4_v3	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	16	110 GiB	Premium-SSD	256GB	NVIDIA T4	16GB	512.78	FHD	Win10 22H2
Azure NV6adsA10_v5	AMD EPYC 74F3 - Milan	3.2 GHz	4.0 GHz	6	55 GiB	Premium-SSD	256GB	NVIDIA A10 4Q	4GB	512.78	FHD	Win10 22H2
Azure NV12adsA10_v5	AMD EPYC 74F3 - Milan	3.2 GHz	4.0 GHz	12	110 GIB	Premium-SSD	256GB	NVIDIA A10 8Q	8GB	512.78	FHD	Win10 22H2
Azure NV36adsA10_v5	AMD EPYC 74F3 - Milan	3.2 GHz	4.0 GHz	36	440 GiB	Premium-SSD	256GB	NVIDIA A10 24Q	24GB	512.78	FHD	Win10 22H2
Azure NG8ads_V620_v1	AMD EPYC 7763 - Genoa	2.45 GHz	3.5 GHz	8	16 GiB	Premium-SSD	256GB	AMD V620 1/4	8 GB	23.Q3	FHD	Win10 22H2
Azure NG16ads_V620_v1	AMD EPYC 7763 - Genoa	2.45 GHz	3.5 GHz	16	64 GiB	Premium-SSD	256GB	AMD V620 1/12	16 GB	23.Q3	FHD	Win10 22H2
Azure NG32ads_V620_v1	AMD EPYC 7763 - Genoa	2.45 GHz	3.5 GHz	32	64 GiB	Premium-SSD	256GB	AMD V620 1/1	32 GB	23.Q3	FHD	Win10 22H2



GPU INSTANCE PERFORMANCE & COSTS - FULLHD

Instance	vRay 5 - CPU	vRay 5 RTX GPU	Keyshot		Revit t 2021 RFO J - update (sec)		Revit 2021 RFO - export (sec)	2021 RFO		2021 RFO	2023 -	2023 -	VRED 2023 - ultra high AA	samnia	Unreal Engine 4.26 Audi - RT ON		Inventor 2023 - Modelling	Inventor 2023 - Drawing	Inventor 2023 - FEA	Inventor 2023 - SIM	Inventor 2023 - Graphics	Inventor 2023 - RT	Inventor 2023 - Data Translate	Inventor 2023 - Assy Pattern	Assy	Inventor 2023 - ST	Inventor 2023 - MT	Price
Microsoft Azure					n	uben@fra.m	nio .																	171	uben@fra.m	10		
Azure NV6_v3	2594	FAIL	0.49	4.6	16.5	187.8	546.9	143.7	48.6	4.15	34.0	19.6	9.2	41.0	FAIL	26.2	748	539	709	865	1714	512	557	626	824	7576	3397	1.32
Azure NV12_v3	3425	FAIL	0.66	4.6	14.4	178.9	521.0	104.9	46.1	3.96	34.0	19.6	9.2	42.5	FAIL	26.5	806	590	724	891	1736	765	580	676	831	7942	4088	1.84
Azure NV8as_v4	3275	FAIL	0.64	FAIL	12.7	160.4	488.2	115.6	56.5	5.63	10.1	4.8	2.8	15.4	FAIL	4.4	896	577	876	539	1318	689	616	558	572	7312	4012	0.94
Azure NV16as_v4	6288	FAIL	1.24	FAIL	12.8	149.4	455.1	61.6	44.5	3.69	17.4	9.4	4.9	27.1	FAIL	18.5	1136	693	879	774	1936	1382	654	697	783	8669	5407	1.88
Azure NC4asT4_v3	2301	589	0.44	23.5	12.7	147.3	490.9	150.1	41.2	3.84	65.8	37.7	18.2	74.6	25.1	41.1	770	581	869	1259	2251	469	620	981	1116	10164	3452	0.81
Azure NC8asT4_v3	4954	662	0.89	23.6	12.4	141.4	452.7	81.6	37.5	3.28	64.7	37.0	17.9	71.7	23.9	41.8	1000	755	907	1244	2345	954	670	988	1148	10473	5064	1.24
Azure NC16asT4_v3	9533	734	1.79	24.6	12.6	143.6	455.1	47.4	39.9	3.23	63.5	37.9	17.9	77.5	24.8	40.9	1321	857	881	1217	2523	1981	681	895	1162	10240	6379	2.14
Azure NV6adsA10_v5	3404	FAIL	0.67	6.6	9.2	115.0	351.2	112.6	37.1	2.78	19.5	12.6	7.5	2.1	FAIL	2.6	961	811	1095	1384	1988	715	865	1256	1387	12236	4953	0.82
Azure NV12adsA10_v5	7030	351	1.32	13.9	8.8	101.2	314.3	56.4	31.0	2.28	39.7	25,4	15.1	51.5	FAIL	27.6	1274	1027	1101	1525	2616	1411	933	1165	1450	12735	7068	1.63
Azure NV36adsA10_v5	20283	1544	3.99	52.4	9.2	98.5	316.4	27.3	25.9	2.09	138.3	78.1	41.1	134.2	47.1	88.9	1742	1194	1040	1480	2937	3928	929	1312	1470	12409	9280	5.47
Azure NG8ads_V620_v1	6023	FAIL	1.08	FAIL	10.5	125.8	426.8	76.4	45.9	3.15	31.0	17.8	10.7	10.5	1,5	26.2	1111	870	1004	1342	2453	958	817	952	1137	10579	5702	1.41
Azure NG16ads_V620_v1	12127	FASL	2.15	FAIL	10.5	122.2	385.4	43.0	36.3	3.26	56.3	34.5	20.6	20.7	19.4	50.6	1521	1026	992	1421	2906	1992	848	1045	1285	11740	7660	2.82
Azure NG32ads_V620_v1	24864	FAIL	2.16	FAIL	10.5	121.8	370,4	27.0	31.1	2.45	60.0	60.0	44.1	31.7	42.4	120.0	1616	1125	962	1366	2924	3308	852	1109	1337	11656	8785	5.60
Physical Workstation																								The second second	aben@fra.m			
HP Z2 Mini G9	13288	N/A	2.67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.7	16.4	7.8	36.7	N/A	13.1	1912	1745	1328	2171	N/A	2707	1440	1975	2163	N/A	N/A	N/A
Scan 3XS GWP-ME A13C	26952	1012	32.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	68.2	38.2	18.7	72.2	N/A	43.3	2307	2166	1473	2611	N/A	5706	1743	2327	2652	N/A	N/A	N/A
Armari Magnetar M64TP-RW1300G3	66461	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44.3	38.9	29.0	40.4	N/A	101.4	1941	1394	1132	1449	N/A	11744	1124	1424	1701	N/A	N/A	N/A
Scan 3XS GWP-ME A1128T	59982	5277	187.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		.1+				PH (1)	HALLOW S.		1770	(Table)		Date	11/03/20 ruben@f								Notes abo	ut pricing		Price \$/ho On-demar				



Credits: Greg Corke - Managing Editor and Co-founder at AEC Magazine, DEVELOP3D, NXT BLD. Director X3D Media

Notes: Results are indication - not exact science

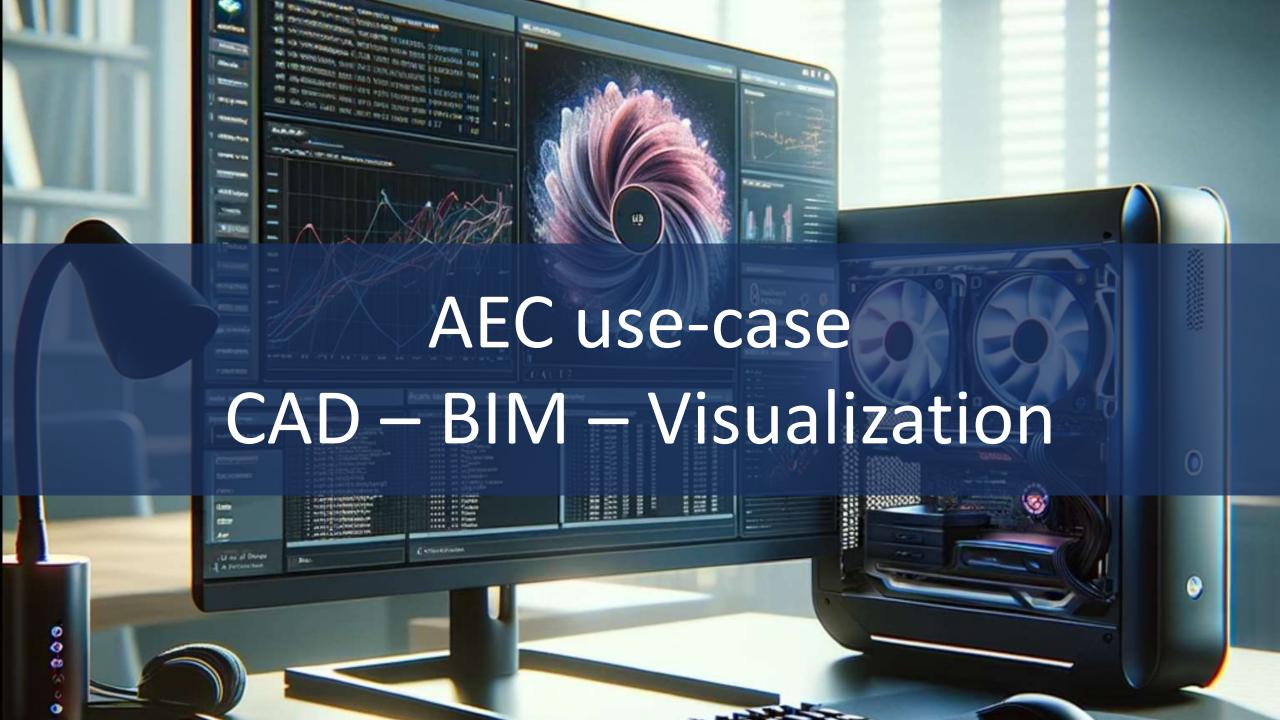
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Average compute price across all regions

Windows OS License included

Storage costs not included





GPU INSTANCE PERFORMANCE & COSTS – FULLHD - AEC

Angeles (1)	690	Max CPU Rese Spee Chell Segi Speed com	ed (to, pode	Storage Typ	Stanger e Stan	uru .	GPU MA	GPU (Sriver)	Unglisy	es es	eftay 5- CPU	Wiley is HTX III GPU III	ephet 6 1 OPV 1	6 legatest 202 1 - GPU - 10 1	endt Resit 1850 Bio skate con nect for	MEZI Resilt Control Control Control Control	point Revolution in 1890- ert Revolution cd (sec)	Of Shrvit Aug BFO Craphics (swc)	atos and notate (sec)	960 3523 - 66 AA	WEB 2025- med AA	VMED 2023- office trigh AA	mape 1 11 az mape 1	lereal to ingine fir to Audi 4.2 IS CIN III	ghe 35 Asel Mod	orese by 125 - 1 Selling G	needer b INES- randing	2925 293 29A	2005 - SIM	Escentis 2023 - Graphics	Inventor 2025 - ES	twenter INIT - Data Translate	Investor 2023 - Anny Pattern	inventor 2025 - Assy Constraint	Inventor le 2025-57 26	HERTON 128 MIT	-
Hillian	II Sec			Section 100	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	10000	SING.	10000	A CONTRACT	A PERSONAL PROPERTY.			_								_						_	_		_					-		_	
Azure W/6_v/I	Intel Xeon ES-1690x1 - Hersvell	2,60 GHz 1,5 G	Dig 0	35 0/6	Standard-St	0 19608	NVIDIA MID	908	512.78	FHD	WHIE 280	2294	TAIL B	0.40	46 1	18.2	311	9 143.3	ALC:	4.15	74.2	19.8	0.0	41.0	/A4 BB	00.2	146	201	700	803	LTS4	212	337	629	624	- AN I	3007	1.02
Azure RV32_v1	Intel Reon 65-2890v3 - Recivel)	2.60 OHL 3.50		117.00	Standard 68	10 2500E	NVIDIA NIIO	908	312.78	FHD:	WW18 2347	9429	2884	13,6m	4.6	184 18	9 873	JU JOLA	AEAE MAIL	4.15 5.56	74.1	19.6		41.5	ALL DO	85.5 E		100	724	201	1796	766	337	079	901	7947	4000	1.84
Asura Histor_yel	AMD GPYC 7VIJ - Rove	2.45 GHz 1.3 G	Per 8	28 648	Poemium-S	50 15668	AVD NE25	498	20 18.86 11	FID	WVGE 224G	4470	DAIL B	0.64	ALC: UNK	12.7 100	406	2 115.6	34.0	5.60	100	4.0	120	SA		44	96	377	\$76	229	1100	1000	635	358	932	7002	4612	0.94
Attire NVINo_e4	AMD EPIC 7/32 - Rove	2.45 OH; 1.50	HE 116	28 648	Promium 5	50 15005	AND WIZE	908	22.18.05.11	PHD	wwatzau	9288	Dille III	1/24	TAR III	12.8 340	450	1 81/8	44.9	5.85	17.4	1.0	8.0	77.1	rain Es	53 1	179	163	329	774	1996	1901	856	887	18.0	10073	3407	1.88
Azure NCascTe, ya	AMD SPEC 7v12 - Norme	2.45 GHz 1.2 G		20 GM	Promium S	95 156GB	NVIDLA TA	1003	543.78	FHD	WV018-22002	2101	224	0.04	20.3	127 26	W 696	0 100.3	41.2	1.34	67.8	17.7	18.3	78.8	25.1	H.I. I	730	141:	\$60	1258	3005	463	630	1983	1118	10104	3412	0.01
Azirte NCBusT4_v2	AMD EPIC TV12 - Ratio	240 OH: 1.50		26 0/8	Pheritary-51	95 25608	BIODIATE	1000	202.28	THD	Win18 2390	-4004	200	0.00	25.0	114 141	# 450	7 81.9	37.5	5.28	:88.7	0T.0	17.9	71.7	23.9	(L) D	000	79.5	907	1244	2340	204	600	765	1148	19475	3804	1.24
Alure NCHARTS vit	AMD FPIC 7/32 - Borne	240 686 13 0	eq 16	330 68	Potentium 5		NVIOLA TE	19608	342.28	FHD:	W0110 2340	10.01	794	1.79	26.6	12.8 101	6 49	1 47.4	79.9	1.21	81.5	37.8	13.0	27.6		ma k	111	807	881	1217	2121	1901	100	200	1110	10340	MIN	3.54
Azura HV6adsA32_v5	AMD EPIC MFS - Milan	3.3 GHz 4.0 G	Dies de	35 6/8	Premium-S	50 35608	WVDIA A1040	43E	532.78	THD:	Wind 200 :	3404	DAIR.	0.67	A.C.	H2 115	100 201	11110	37.1	2.76	28.1	12.6	78.8	11		1000	100	BILL.	000th	330e	1966	713	. 885	108	2367	12200	4553	0.02
Azure NVIZMSASS vs	AMD EPSC 30F3 - NINAN	3208 450	PG 12	150 G W	Premium 5	50 ISSUE	WASHA ADDRO	808	312.78	PHD	W/vj10 22H2	7090	716	1.35	11.9	100	PHO PERSON	3 964	ne	11.29	29.7	25.4	15.2	51.5	Mile St	17.6	ETA .	1027	1100	III	2908	1411	791	1166	2016	1270	7905	1.49
Azure NV26astub30 x5	AMD SPIRC 26F3 - Willen	3.1 GHz 4.0 G	Nr. 16	640 G/6	Premium-St	10 15664	NVIDIA A10 240	2698	\$12.78	FHD	Wirth: 2240	30201	1546	2007	50.4	172	NO. INC.	4 27.9	20.6	10000	436.0	76.1	4233	THE R. LEWIS CO., LANSING	473 m	ALC: NAME OF TAXABLE PARTY.	742	1000	1000	1400	2697	1000	900.	1112	NAME OF STREET	13409	9290	2.47
Azure NG6ads_V820_v1	AMD EPIC 7783 - Denos	2.43 GHz 3.5 G		39 048	Premium-5	50 [19608	AMD Y620 1/A	8.08	19.00	PHD	Ww18.22H2	8023	1885	1.00	TAL BE	100.0	8. 428	25.4	43.2	3.25	11.0	17.8	30.7	10.1	18 11 12	20.2	ш	870	1004	1342 ·	2455	208	657.	1902	1117	10879	3002	1.41
Azure Nüstads, VSSS vs	AMD EPYC 2763 - Sence	2.45 GHz (8.5 G	ist 16	64 688	Powniam-S	50 156GB	AMD V620 1/12	Mi Git	28.08	FHD	Wint633H2	13127	100.	2.15	TAX. BE	10.2	18 426 12 100	4 460	March 1	3.26	56.4	34.5	30.6	20.7	19.4	10.6	124	1036	990	1477	2000	1902	540	DOM:	1265	1,1760	7960	2.82
Azure WGIJach, V638 vS	AMD EPIC 7763 - General	2.45 GHz 13 G		64 G/B	Premium-S	50 25008	AMD 9420 1/1	32 GB	23,03	THE	W0rd 0 22H2	34804	TAIR IS	2.16	TALL BE	10.9			m.r.	345	80.0	00.0	44.1	31.7	424 3	200:	OR SHAPE	113K	962	330K	2024	1308	852	2109	1337	33616	8785	3.00
Phylical Mepiticalism	The state of the s	ARREST NEW	State No.	00000	10000000		referration inst	0.51016	3 (3/200)	4 7900	and the same of	201002	Wito S	SELLIE II	AND DE	MENT HOUSE	CONTRACTOR OF THE PARTY	Acres 100 C		10000	a axily	(Children	(A) (A)	Dente III	DE CONTRACT	ALC: N	Variable and	400	100	10000000	No.	29 10	20 TO 10 TO		besides o	e duvid so	and the last	The state of
HF 72 Mins 68	Intel Core (7-12700)	1.0 GHr. 5.0 G	Sep. SP.	46 13 GB	550	119	NVIDIA TIQUE	458	511.65	FHU	wints	11206	M/W	2.57	Mar 3	N/A TH	A N	A N/A	96/8	-MAX	30.7	15.A	7.4	36.7	N/A	12.1	912	1745	1320	2171	-B/A	2707	1640	2975	2167	N/A	NA	8/8
Size 345 GMT-ME A150	Intel Core IS-13900X	3.0000 5.60	PR 80-3	185 B4 GB	NVNe	218	RVIDIA RTX A2000	1208	317.4	PHD	WWIII	76957	1002	32.08	60%)	N/A N/	A N	A NOA		M/A	88.2	58.2	38.7	72.2		15.5 2	507	2188	1475		R/A	1708	1745	2527	2882	N/A	26/4	9/4
Arman Magnetar MGETP-RW1300GX	AMD Rysen Threadroper Pro 1695WX	3.7 GHz 34.5 G	PHE 04	128 GB	NVMe	319	AVD Radeon Pro yessed	1 2268	22.03	FHD	WW11	06461	- N/A	N/A	N/E I	N/A N/	K N/	A 9/6	N/A N/A N/A	N/A	186.3	36.9	29.0		26/36 3	21.4 2	941	1264	1132	1407	HOA.	11766	1138	1424	1701	N/A	5478.	N/A
Scan DKS GWF-ME ALIZED	AMD Rypen Timesdraper Pro 3955Wit.	278HZ 436	PKE 04	128 68	NVMe	2118	NVIDIA RTX 6000 ada	4503	528.2A	FHD	wird1				N/E 1		A 167		MIL	76/A	474	76/4	N/A	ME	76/A 1	WE A		N/X	N/A	N/A	19/4	976		MIL	A/A	N/A	14/A	M/A
	16	DΙ	2	Z 7	Z I	8	N						D)	Z	. Z	. 1	8	16	1		Name of	obergifts Irag Corke (COLUME) (equits are equits reg)	- Managing reducation of vary	not send to	Co-founder a	- 50	uma OCVD	AOPSEL NA		tarica elipsi ester XID t	XXIII-		Windows	d porroy		ens.	



	34.											
Instance	СРИ		Max CPU Speed - single- core	J vCPUs	RAM	Storage Type	Storage Size	GPU	GPU RAM	GPU Driver	Display	os
Microsoft Azure								ruben@fra.me				
Azure NV6_v3	Intel Xeon E5-2690v3 - Haswell	2.60 GHz	3.5 GHz	6	55 GiB	Standard-SSD	256GB	NVIDIA M60	8GB	512.78	FHD	Win10 22H2
Azure NV12_v3	Intel Xeon E5-2690v3 - Haswell	2.60 GHz	3.5 GHz	12	112 GiB	Standard-SSD	256GB	NVIDIA M60	8GB	512.78	FHD	Win10 22H2
Azure NV8as_v4	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	8	28 GiB	Premium-SSD	256GB	AMD MI25	4GB	22.10.01.11	FHD	Win10 22H2
Azure NV16as_v4	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	16	56 GiB	Premium-SSD	256GB	AMD MI25	8GB	22.10.01.11	FHD	Win10 22H2
Azure NC4asT4_v3	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	4	28 GiB	Premium-SSD	256GB	NVIDIA T4	16GB	512.78	FHD	Win10 22H2
Azure NC8asT4_v3	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	8	56 GiB	Premium-SSD	256GB	NVIDIA T4	16GB	512.78	FHD	Win10 22H2
Azure NC16asT4_v3	AMD EPYC 7V12 - Rome	2.45 GHz	3.3 GHz	16	110 GiB	Premium-SSD	256GB	NVIDIA T4	16GB	512.78	FHD	Win10 22H2
Azure NV6adsA10_v5	AMD EPYC 74F3 - Milan	3.2 GHz	4.0 GHz	6	55 GiB	Premium-SSD	256GB	NVIDIA A10 4Q	4GB	512.78	FHD	Win10 22H2
Azure NV12adsA10_v5	AMD EPYC 74F3 - Milan	3.2 GHz	4.0 GHz	12	110 GIB	Premium-SSD	256GB	NVIDIA A10 8Q	8GB	512.78	FHD	Win10 22H2
Azure NV36adsA10_v5	AMD EPYC 74F3 - Milan	3.2 GHz	4.0 GHz	36	440 GiB	Premium-SSD	256GB	NVIDIA A10 24Q	24GB	512.78	FHD	Win10 22H2
Azure NG8ads_V620_v1	AMD EPYC 7763 - Genoa	2.45 GHz	3.5 GHz	8	16 GiB	Premium-SSD	256GB	AMD V620 1/4	8 GB	23.Q3	FHD	Win10 22H2
Azure NG16ads_V620_v1	AMD EPYC 7763 - Genoa	2.45 GHz	3.5 GHz	16	64 GiB	Premium-SSD	256GB	AMD V620 1/12	16 GB	23.Q3	FHD	Win10 22H2
Azure NG32ads_V620_v1	AMD EPYC 7763 - Genoa	2.45 GHz	3.5 GHz	32	64 GiB	Premium-SSD	256GB	AMD V620 1/1	32 GB	23.Q3	FHD	Win10 22H2



Instance	vRay 5 - CPU	vRay 5 RTX GPU				Revit 2021 RFO create (sec)	Revit 2021 RFO export (sec)	Revit 2021 RFO Render (sec)	Revit 2021 RFO Graphics (sec)		VRED 2023 - no AA	VRED 2023 - med AA	VRED 2023 - ultra high AA	sample	Unreal Engine 4.26 Audi RT ON	Unreal Engine 4.26 Audi - RT OFF	Inventor 2023 - Modelling	Inventor 2023 - Drawing	Inventor 2023 - FEA	Inventor 2023 - SIM	Inventor 2023 - Graphics	Inventor 2023 - RT	Inventor 2023 - Data Translate	2023 - Assy	Inventor 2023 - Assy Constraint	Inventor 2023 - ST	Inventor 2023 - MT	Price
Microsoft Azure					i i	ben@fra.e																			aben#9fra.m			
Azure NV6 v3	2594	FAIL	0.49	4.6	16.5	187.8	546.9	143.7	48.6	4.15	34.0	19.6	9.2	41.0	FAIL	26.2	748	539	709	865	1714	512	557	626	824	7576	3397	1.32
Azure NV12 v3	3425	FAIL	0.66	4.6	14.4	178.9	521.0	104.9	46.1	3.96	34.0	19.6	9.2	42.5	FAIL	26.5	806	590	724	891	1736	765	580	676	831	7942	4088	1.84
Azure NV8as_v4	3275	FAIL	0.64	FAIL	12.7	160.4	488.2	115.6	56.5	5.63	10.1	4.8	2.8	15.4	FAIL	4.4	896	577	876	539	1318	689	616	558	572	7312	4012	0.94
Azure NV16as v4	6288	FAIL	1.24	FAIL	12.8	149.4	455.1	61.6	44.5	3.69	17.4	9.4	4.9	27.1	FAIL	18.5	1136	693	879	774	1936	1382	654	697	783	8669	5407	1.88
Azure NC4asT4_v3	2301	589	0.44	23.5	12.7	147.3	490.9	150.1	41.2	3.84	65.8	37.7	18.2	74.6	25.1	41.1	770	581	869	1259	2251	469	620	981	1116	10164	3452	0.81
Azure NC8asT4_v3	4954	662	0.89	23.6	12.4	141.4	452.7	81.6	37.5	3.28	64.7	37.0	17.9	71.7	23.9	41.8	1000	755	907	1244	2345	954	670	988	1148	10473	5064	3.24
Azure NC16asT4_v3	9533	734	1.79	24.6	12.6	143.6	455.1	47.4	39.9	3.23	63.5	37.9	17.9	77.5	24.8	40.9	1321	857	881	1217	2523	1981	681	895	1162	10240	6379	2.14
Azure NV6adsA10_v5	3404	FAIL	0.67	6.6	9.2	115.0	351.2	112.6	37.1	2.78	19.5	12.6	7.5	2.1	FAIL	2.6	961	811	1095	1384	1988	715	865	1256	1387	12236	4953	0.82
Azure NV12adsA10_v5	7030	351	1.32	13.9	8.8	101.2	334.3	56.4	31.0	2.28	39.7	25.4	15.1	51.5		27.6	1274	1027	1101	1525	2616	1411	933	1165	1450	12735	7068	1.63
Azure NV36adsA10_v5	20283	1544	3.99	52.4	9.2	98.5	336.4	27.3	25.9	2.09	138.3	78.1	41.1	134.2	47.1	88.9	1742	1194	1040	1480	2937	3928	929	1312	1470	12409	9280	5.47
Azure NG8ads_V620_v1	6023	FAIL	1.08	FAIL	10.5	125.8	426.8	76.4	45.9	3.15	31.0	17.8	10.7	10.5	1.5	26.2	1111	870	1004	1342	2453	958	817	952	1137	10579	5702	1.41
Azure NG16ads_V620_v1	12127	FAIL	2.15	FAIL	10.5	122.2	385.4	43.0	36.3	3.26	56.3	34.5	20.6	20.7	19.4	50.6	1521	1026	992	1421	2906	1992	848	1045	1285	11740	7660	2.82
Azure NG32ads_V620_v1	24864	FAIL	2.16	FAIL	10.5	121.8	370.4	27.0	31.1	2.45	60.0	60.0	44.1	31.7	42.4	120.0	1616	1126	962	1366	2924	3308	857	1109	1337	11656	8785	5.60
Physical Workstation		-	100000000	- Barrelland			10000	No.	- Control									20000000						n	uben@fra.m		10000	- Marine
HP Z2 Mini G9	13288	N/A	2.67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30.7	16.4	7.8	36.7	N/A	13.1	1912	1745	1328	2171	N/A	2707	1440	1975	2163	N/A	N/A	N/A
Scan 3XS GWP-ME A13C	26952	1012	32.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	68.2	38.2	18.7	72.2	N/A	43.3	2307	2166	1473	2611	N/A	5706	1743	2327	2652	N/A	N/A	N/A
Armari Magnetar M64TP-RW1300G3	66461	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44.3	38.9	29.0	40.4	N/A	101.4	1941	1394	1132	1449	N/A	11744	1124	1424	1701	N/A	N/A	N/A
Scan 3XS GWP-ME A1128T	59982	5277	187,45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A:	N/A





<u>User Experience and Performance Data</u>

laaS: AWS, Azure, GCP GPU instances Apps: Autodesk Revit, Inventor, VRED, Unreal Engine and Enscape

Network: LAN, WAN (2/4/8 Mbps – 10/60/110ms RTT)

Resolution: Full HD and 4K resolution

Color space: YUV420 & YUV444

Results: 40+ studies, 200+ scores

END USER EXPERIENCE TESTING - THE EUC SCORE PLAYER INTERFACE

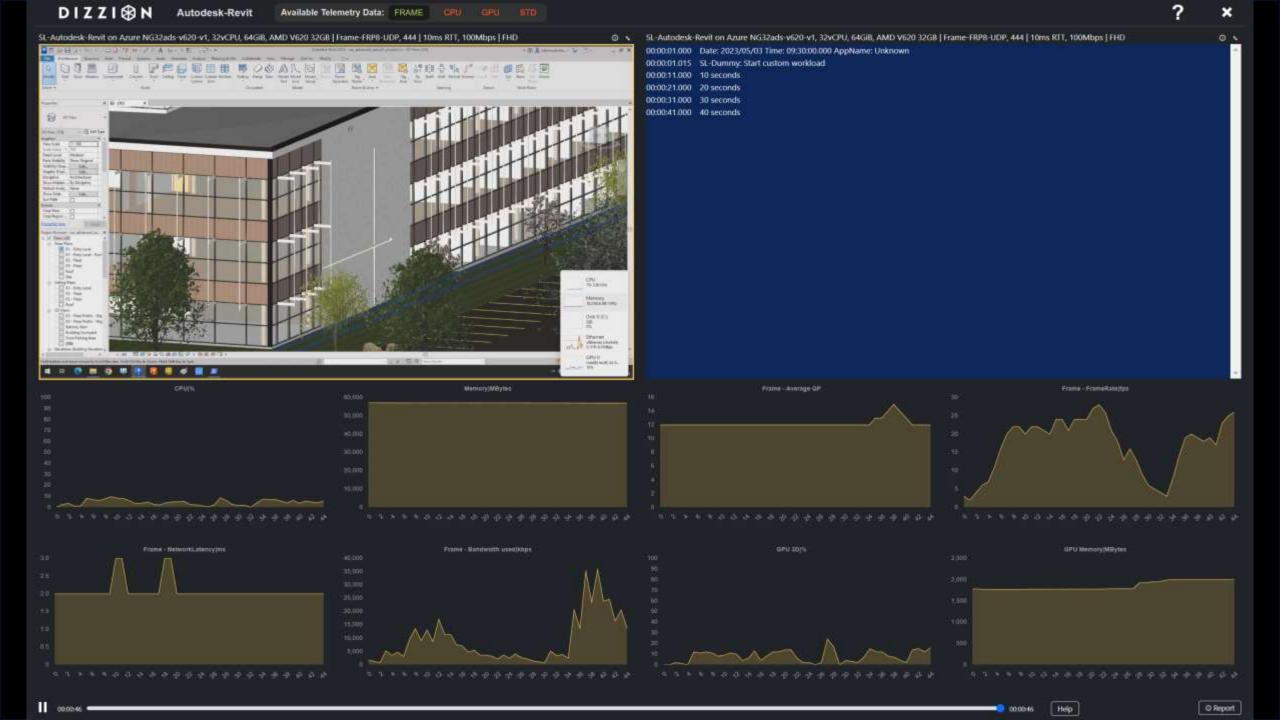


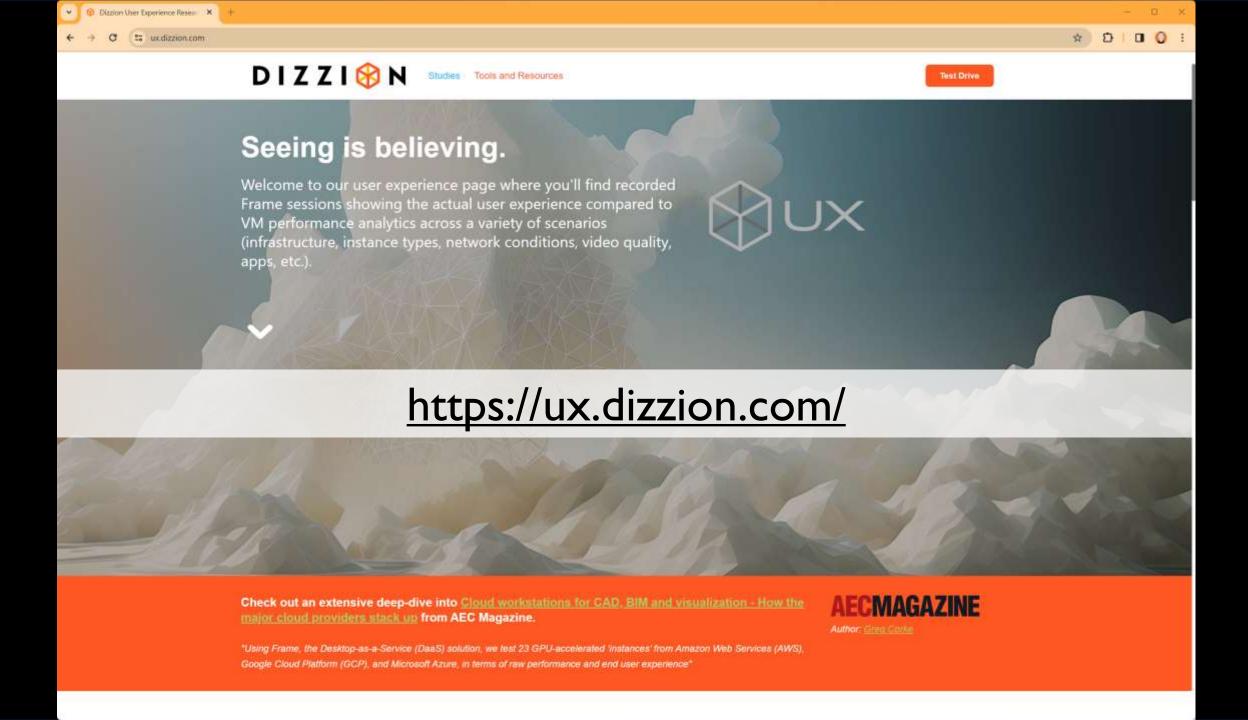


- Latency and network bandwidth
- Click for detailed information about the VM specs, connection and endpoint
- Click to maximimise the viewport
- Viewport playback (examine for compression / responsiveness to mouse movements, etc)
- Task Manager showing resources used at the endpoint (not the cloud workstation)
- Timeline (play back in real time or scrub up and down, as necessary)

- Quantisation Priority (QP) (level of compression being applied to the video stream)
- Performance in the viewport (Frames Per Second)
- Round trip network latency
- Actual network bandwidth used
- Actual GPU utilisation of Nyidia GPUs with select applications
- GPU memory utilisation
- D GPU utilisation for encoding the video stream (H.264)







FINDINGS

- Azure NGads_V620 (AMD V620 GPU) has great CPU and GPU; Performance is great.
- Entry level NG8ads_V620 with ¼ of GPU is great for AEC Design Apps.
- The NGI6ads_V620 with ½ of GPU is great for AEC Design and Visualization
- Azure NGads_V620 ¼ and ½ GPU understand limitations with regards to MultiMonitor and FHD/4K resolution, encoding/decoding.
- Azure Ngads_V620 with full GPU is providing great performance at FHD and 4K
- RealTime RayTracing (RT), check application updates, check AMD driver often doesn't work.



FINDINGS

- Overall the NGads_V620 with AMD Genoa CPU at 2.45 GHz and AMD Radeon V620 GPU provides slightly better performance than the Azure NCasT4_v3 with AMD 7V12 Rome CPU at 2.45 GHz and a dedicated NVIDIA T4 GPU.
- Overall the NGads_V620 with AMD Genoa CPU at 2.45 GHz and AMD Radeon V620 GPU provides slightly better performance than the Azure NVadsA10_v5 machines with AMD 74F3 Milan CPU with an NVIDIA A10 GPU.
- NG32adms_V620_v1 has 176GB of RAM (32 vCPU and dedicated V620) don't see much usage for EUC here
- Azure NGads_V620 (AMD V620 GPU) price isn't as great / low as expected (since no GPU licensing). Power consumption ... ?!
- Availability of Ngads_V620 is attention! (quota and regions)





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THANK YOU



Ruben Spruijt Field CTO at Dizzion ruben@dizzion.com



Joe DaSilva PMTS, Solutions Architect, Cloud Graphics at AMD