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UAD-2 Instance Chart

About This Chart

The following table indicates DSP usage and instance counts for UAD-2 Powered Plug-Ins. See bottom of page for more details about the chart. For the legacy UAD-1 instance chart, [click here](#).

UAD-2 Powered Plug-In	DSP % Used		UAD-2 SOLO		UAD-2 DUO		UAD-2 QUAD	
	Mono	Stereo	Mono	Stereo	Mono	Stereo	Mono	Stereo
1176LN (Analog Classics)	4.5%	5.0%	22	20	44	40	88	80
1176SE (Analog Classics)	1.6%	2.0%	61	48	122	96	244	192
4K Buss Compressor	2.8%	3.4%	35	29	70	58	140	116
4K Channel Strip *	7.4%	11.4%	17	11	34	22	68	44
Ampex ATR-102 Mastering Tape Recorder	17.6%	29.0%	5	3	10	6	20	12
bx_digital V2 EQ & De-Esser	3.4%	4.9%	N/A	20	N/A	40	N/A	80
bx_digital V2 Mono EQ & De-Esser	3.4%	3.8%	29	20	58	40	116	80
Cambridge EQ *	2.2%	3.3%	46	30	92	60	184	120
Cooper Time Cube	4.5%	4.9%	18	18	36	36	72	72
CS-1 Channel Strip *	6.0%	6.4%	16	15	32	30	64	60
dbx 160 Compressor	2.0%	2.7%	49	36	98	72	196	144
DM-1 & DM-1L Delay Modulator	1.4%	1.8%	71	54	142	108	284	216
DreamVerb	11.8%	12.2%	8	8	16	16	32	32
EL7 FATSO Jr/Sr *	25.6%	40.5%	4	3	8	6	16	12
EMT 140 Plate Reverb	14.6%	15.0%	6	6	12	12	24	24
EMT 250 Electronic Reverberator	6.2%	7.8%	12	11	24	22	48	44
EP-34 Tape Echo	26.7%	28.1%	3	3	6	6	12	12
EX-1 EQ/Compressor *	1.9%	2.3%	53	43	106	86	212	172
Fairchild 670 Compressor	4.5%	5.1%	22	19	44	38	88	76
Harrison 32C EQ	5.4%	9.2%	18	10	36	20	72	40
Harrison 32C SE EQ	1.7%	2.5%	59	39	118	78	236	156
Helios Type 69 EQ	4.8%	6.8%	20	14	40	28	80	56
LA-2A Limiter	3.6%	4.0%	27	24	54	48	108	96
LA-3A Leveler	4.3%	4.7%	23	22	46	44	92	88
Lexicon 224 Classic Digital Reverb	15.3%	17.0%	6	5	12	10	24	20
Little Labs IBP Phase Alignment Tool	3.4%	5.8%	29	17	58	34	116	68
Little Labs VOG Bass Resonance Tool	1.0%	1.4%	90	64	180	128	360	256
Manley Massive Passive EQ (STD & MST)	37.1%	60.2%	2	1	4	2	8	4
Moog Multi-Mode Filter	16.1%	16.6%	6	6	12	12	24	24
Moog Multi-Mode Filter SE	3.0%	3.5%	28	28	56	56	112	112
MXR Flanger/Doubler	11.8%	16.4%	8	6	16	12	32	24
Neve 1073 EQ	4.8%	7.9%	20	12	40	24	80	48
Neve 1073SE EQ	1.6%	2.5%	61	39	122	78	244	156
Neve 1081 EQ	6.0%	9.5%	16	10	32	20	64	40
Neve 1081SE EQ	1.6%	2.8%	38	35	76	70	152	140
Neve 31102 EQ	5.3%	8.5%	18	11	36	22	72	44
Neve 31102SE EQ	1.7%	2.6%	59	38	118	76	236	152
Neve 33609 Compressor	15.0%	21.7%	6	4	12	8	24	16
Neve 33609SE Compressor	3.3%	4.3%	30	23	60	46	120	92
Neve 88RS Channel Strip *	3.2%	4.5%	35	24	70	48	140	96
Precision Buss Compressor	2.8%	3.4%	35	29	70	58	140	116
Precision De-Esser *	2.6%	4.3%	38	23	76	46	152	92
Precision Enhancer Hz	2.6%	3.2%	38	31	76	62	152	124
Precision Enhancer kHz	1.2%	1.9%	86	54	172	108	344	216
Precision Equalizer *	4.0%	6.8%	25	14	50	28	100	56
Precision Limiter	2.8%	3.3%	35	30	70	60	140	120
Precision Maximizer *	7.6%	14.1%	13	7	26	14	52	28
Precision Multiband *	11.9%	18.8%	8	5	16	10	32	20
Pultec EQP-1A EQ	4.1%	6.2%	24	16	48	32	96	64
Pultec Pro EQ	4.4%	7.6%	22	13	44	26	88	52
RealVerb Pro	10.0%	10.4%	10	9	20	18	40	36

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UAD-2 Instance Chart

Roland Boss CE-1 Chorus Ensemble	2.0%	2.5%	48	39	96	78	192	156
Roland Dimension D	2.9%	3.3%	34	29	68	58	136	116
Roland RE-201 Tape Echo	13.3%	13.8%	7	7	14	14	28	28
RS-1 Reflection Engine	4.0%	4.4%	25	22	50	44	100	88
Sonnox Oxford EQ	4.2%	4.7%	24	22	48	44	96	88
SPL Transient Designer	3.6%	4.3%	27	23	54	46	108	92
SPL Vitalizer MK2-T	6.6%	7.0%	14	14	28	28	56	56
SSL E Channel Strip *	7.4%	11.9%	17	11	34	22	68	44
SSL G Bus Compressor	2.8%	3.4%	35	29	70	58	140	116
Studer A800 Multichannel Tape Recorder	9.8%	15.4%	10	6	20	12	40	24
Trident A-Range EQ	5.5%	9.1%	18	11	36	22	72	44
UA 1176 Rev A (Classic Limiter Collection)	12.8%	16.3%	8	6	16	12	32	24
UA 1176 Rev E (Classic Limiter Collection)	13.1%	16.7%	8	6	16	12	32	24
UA 1176AE (Classic Limiter Collection)	12.8%	16.3%	7	6	14	12	28	24

Notes

All measurements are taken at a sample rate of 44.1 kHz.

"DSP % Used" indicates the resources required by one plug-in instance on a single SHARC processor. This measurement is from the System panel in the UAD Meter & Control Panel application (not the blue UAD Meter gauge, which shows averaged DSP loads of all available SHARC processors).

DSP savings and higher instance counts can be achieved with plug-ins marked with an asterisk (*) by disabling UAD-2 LoadLock (in the UAD Meter & Control Panel application) and turning off sections of the processor. See the UAD Plug-Ins Manual for details.

Apollo uses DSP and memory for its internal DSP mixer; therefore the UAD Meters will show some DSP and memory usage when Apollo is connected even if UAD plug-ins are not loaded.

As of v6.2.0, UAD-2 FireWire devices (Satellite and Apollo) have a maximum limit of 58 stereo or 116 mono plug-in instances, and counts for these devices are subject to these limits. These theoretical limits are based on a 44.1 kHz sample rate with a FireWire 800 connection and the UAD Bandwidth Allocation set to 85% in the UAD Meter & Control Panel. For FireWire bandwidth tuning information, see "[Optimizing Performance](#)" on the [Apollo support page](#).

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