




Zaia presents

Cirque du Lykan



For those who were left wanting more out of CdB but find Veyron too demanding, Lykan serves as a 'lite' edition of Veyron to bridge the difficulty gap.

Lykan is suitable for warming up into harder packs like Zonda or Sharpnel; plentiful of

medium and hard charts exist in a variety of songs.

With a collection of 125 charts in 50 songs ranging from 170 to 200 BPM, Lykan helps the player feel confident and master stamina in these speed zones.

Seasoned players will still find something to do with

long, challenging charts as a test of endurance.

Varying patterns allow songs to be comfortably played at higher rates.

13 courses of back-to-back songs are included for those wishing to ascend new heights or appreciate the best of what's in Lykan.



Important Information – Difficulties

Using Numerical Difficulties

The rating system is subject to extreme debate and can easily come under the influence of bias through factors like skill or genre of music. As a result, no official block difficulty exists for this pack.

As an accurate alternative, emphasis is given on breakdowns. Based on the given information, you can then determine the difficulty as you see fit:

[175] 16 ... 64 . 384

You are advised in advance that the block ratings provided are strictly **for reference only**. By selecting any song from the pack, you agree that we are not liable for any credit losses, physical misadventures, or disappointment caused due to any incorrect difficulty displayed in-game.

In general, most, if not all, charts are **underrated** anywhere between zero to 1.5 blocks. If you are unsure, please refer to the breakdowns.

Extended Subrating Notation

Difficulty is split into five subratings, shown in the description of the chart.

15-	Low	14.9 – 15.2
15<	Low-Mid	15.2 – 15.4
15	Mid	15.4 – 15.6
15>	Mid-High	15.6 – 15.8
15+	High	15.8 – 16.1



Sync Notes

Offset

Every song has been synced **13ms early** to compensate for machine play. While there is no 'ideal' magic number, the two machines in CBD Sydney have offsets close to this number.

You may choose to batch change the offsets to suit your machine, but be aware that it takes about 5.8275 and 11.6550 ms for sound to travel from the speaker to your ear at 2m and 4m (recommended distance in DDR manual) respectively.

Waveform Sync

Songs are synced according to the **beginning of the first significant rise** in a waveform or the start of a rise, depending on the context.

Songs average approximate accuracy of ± 0.2 ms except for Himiko (~15 ms near the end) and a few others (~1 ms). I apologise for any non-Fantastics caused due to these errors.

Division 4

C-Modding is advised for this song. I am currently trying to tweak the BPMs so the upcoming arrow can be read easily – hopefully, an improved edition will exist in the B&B pack (trailer hint). If you insist on playing X or M mods, know in advance which arrow to hit.

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Chart Details & Breakdowns

Know what you're about to play with details for each chart, sorted in all kinds of orders.
How fast, and how long, can you go for?

Chart Details – Average Steps per Minute

Song	BPM	Time	Notes	/min	Song	BPM	Time	Notes	/min	Song	BPM	Time	Notes	/min
Thor	180	2:40	810	304	Respectful Potential	200	2:14	970	434	Beyond the Stars	170	2:42	1431	530
Beyond the Stars	170	2:42	823	305	Pure Ruby	178	2:03	894	436	Thor	180	2:40	1419	532
Hardcore Overdoze	182	2:12	685	311	Quadraphinix	180	2:34	1134	442	No Other Choice	194	1:32	819	534
3y3s	191	4:04	1270	312	Atmos Break	175	1:49	803	442	Monolith Renaissance	196	1:59	1073	541
Crystal Wind	187	2:06	665	317	Love Wars	200	2:01	892	442	One More Lovely	200	1:46	959	543
Azul	195	2:06	668	318	Tower of Saints	194	1:49	805	443	Memoria Reborn	200	2:17	1249	547
Air	187	2:20	752	322	Himiko	185	2:04	917	444	Himiko	185	2:04	1132	548
Himiko	185	2:04	671	325	Azul	195	2:06	933	444	Crystal Wind	187	2:06	1152	549
Unlimited Spark	185	3:09	1030	327	Cyber Sparks	192	2:11	976	447	A Reyvateil's Curse	200	2:19	1272	549
Memoria Reborn	200	2:17	761	333	Memoria Reborn	200	2:17	1026	449	Quadraphinix	180	2:34	1412	550
Reunion	184	1:54	639	336	No Other Choice	194	1:32	691	451	Orbital Strike	180	5:03	2812	557
Cyber Sparks	192	2:11	745	341	A Reyvateil's Curse	200	2:19	1045	451	Atmos Break	175	1:49	1027	565
Gateway to Psycho	195	2:29	864	348	Squartatrice	180	2:06	949	452	Critical Crystal	191	3:22	1920	570
St. Scarhand	180	3:00	1055	352	Grief & Malice	200	2:27	1109	453	Gateway to Psycho	195	2:29	1422	573
Ecstasy 2007	190	2:01	719	357	Valiant	186	1:48	815	453	Cyber Sparks	192	2:11	1259	577
Quadraphinix	180	2:34	917	357	Gateway to Psycho	195	2:29	1137	458	Higan Retour	200	2:10	1254	579
Royally Screwed	194	1:42	609	358	Destination of the Heart	200	1:21	620	459	Respectful Potential	200	2:14	1296	580
Future Destination	200	2:05	750	360	Unlimited Spark	185	3:09	1453	461	Ecstasy 2007	190	2:01	1191	591
Tower of Saints	194	1:49	662	364	Red Lucifer Rising	192	3:53	1843	475	Forgotten Ancient	186	5:30	3259	593
Atmos Break	175	1:49	668	368	Ecstasy 2007	190	2:01	958	475	Omaeee	198	4:05	2429	595
Love Wars	200	2:01	744	369	Reunion	184	1:54	903	475	Vertex Beta	200	2:54	1741	600
Destination of the Heart	200	1:21	502	372	Hardcore Overdoze	182	2:12	1066	485	World End's Yama Xanadu	190	5:27	3289	603
Valiant	186	1:48	670	372	Air	187	2:20	1133	486	Grief & Malice	200	2:27	1481	604
Grief & Malice	200	2:27	917	374	Monolith Renaissance	196	1:59	968	488	Love Wars	200	2:01	1230	610
Critical Crystal	191	3:22	1263	375	Pure Ruby	178	2:03	1006	491	Galactic Astro Domination	200	1:26	877	612
Pure Ruby	178	2:03	775	378	No Other Choice	194	1:32	755	492	Blue Zenith	200	4:05	2501	612
A Reyvateil's Curse	200	2:19	882	381	Ascension to Heaven	200	4:53	2419	495	Division 4	180	5:02	3101	616
Galactic Astro Domination	200	1:26	546	381	Critical Crystal	191	3:22	1670	496	St. Scarhand	180	3:00	1849	616
Squartatrice	180	2:06	801	381	Blue Zenith	200	4:05	2032	498	Hollywood Galaxy	186	3:54	2443	626
Creation	190	1:24	534	381	Creation	190	1:24	697	498	Creation	190	1:24	893	638
Monolith Renaissance	196	1:59	757	382	Higan Retour	200	2:10	1088	502	Thor	180	2:40	1759	660
One More Lovely	200	1:46	678	384	Galactic Astro Domination	200	1:26	725	506	ApolloN	185	3:20	2209	663
Red Lucifer Rising	192	3:53	1538	396	Royally Screwed	194	1:42	865	509	Disconnected	200	3:28	2305	665
Hardcore Overdoze	182	2:12	905	411	3y3s	191	4:04	2073	510	Alive in the Darkness	180	6:48	4529	666
Reunion	184	1:54	797	419	Future Destination	200	2:05	1064	511	Vertex Beta	200	2:54	1943	670
Crystal Wind	187	2:06	883	420	Respectful Potential	200	2:14	1145	513	World End's Yama Xanadu	190	5:27	3660	672
Beyond the Stars	170	2:42	1140	422	Valiant	186	1:48	927	515	One More Lovely	200	1:46	1189	673
Air	187	2:20	986	423	Tower of Saints	194	1:49	937	516	Paradise Lost	188	3:49	2616	685
Future Destination	200	2:05	883	424	St. Scarhand	180	3:00	1551	517	Artemis	200	4:42	3305	703
Unlimited Spark	185	3:09	1345	427	Azul	195	2:06	1089	519					
3y3s	191	4:04	1755	432	Destination of the Heart	200	1:21	702	520					
Royally Screwed	194	1:42	737	434	Squartatrice	180	2:06	1094	521					
Higan Retour	200	2:10	940	434	Red Lucifer Rising	192	3:53	2028	522					

Time is measured from the first note to the last note.

Notes denote the total number of arrows.

Chart Details – Average 16th Stream Ratio

Song	BPM	Time	%
Destination of the Heart	200	1:21	36.5
Creation	190	1:24	38.4
3y3s	191	4:04	40.9
Azul	195	2:06	40.9
Memoria Reborn	200	2:17	41.7
Thor	180	2:40	42.2
Crystal Wind	187	2:06	42.4
Unlimited Spark	185	3:09	44.1
Himiko	185	2:04	44.1
Cyber Sparks	192	2:11	44.3
Gateway to Psycho	195	2:29	44.6
Destination of the Heart	200	1:21	45.1
Future Destination	200	2:05	45.1
Beyond the Stars	170	2:42	45.1
Air	187	2:20	45.2
Reunion	184	1:54	45.9
Love Wars	200	2:01	46.0
Royally Screwed	194	1:42	46.4
Ecstasy 2007	190	2:01	46.8
Grief & Malice	200	2:27	47.0
Tower of Saints	194	1:49	47.0
Galactic Astro Domination	200	1:26	47.4
A Reyvateil's Curse	200	2:19	47.5
One More Lovely	200	1:46	48.2
St. Scarhand	180	3:00	48.5
Monolith Renaissance	196	1:59	48.8
Critical Crystal	191	3:22	49.3
Quadraphinix	180	2:34	49.4
Valiant	186	1:48	49.9
Creation	190	1:24	50.1
Hardcore Overdoze	182	2:12	50.4
Destination of the Heart	200	1:21	51.0
Red Lucifer Rising	192	3:53	51.7
Atmos Break	175	1:49	52.2
Future Destination	200	2:05	53.1
Pure Ruby	178	2:03	53.2
Squartatrice	180	2:06	53.3
Respectful Potential	200	2:14	54.1
Higan Retour	200	2:10	54.4
Love Wars	200	2:01	55.2
Royally Screwed	194	1:42	56.2
Memoria Reborn	200	2:17	56.3
A Reyvateil's Curse	200	2:19	56.3

Song	BPM	Time	%
Crystal Wind	187	2:06	56.3
3y3s	191	4:04	56.5
Grief & Malice	200	2:27	56.8
Azul	195	2:06	57.2
Tower of Saints	194	1:49	57.2
Reunion	184	1:54	57.3
Unlimited Spark	185	3:09	57.6
Cyber Sparks	192	2:11	58.1
No Other Choice	194	1:32	58.4
Gateway to Psycho	195	2:29	58.7
Air	187	2:20	59.3
Himiko	185	2:04	60.3
Valiant	186	1:48	60.6
Quadraphinix	180	2:34	61.1
Pure Ruby	178	2:03	61.4
Red Lucifer Rising	192	3:53	61.9
Blue Zenith	200	4:05	62.0
Ascension to Heaven	200	4:53	62.0
Unlimited Spark	185	3:09	62.2
Ecstasy 2007	190	2:01	62.4
Monolith Renaissance	196	1:59	62.4
Beyond the Stars	170	2:42	62.5
Atmos Break	175	1:49	62.7
Galactic Astro Domination	200	1:26	62.9
Higan Retour	200	2:10	63.0
Squartatrice	180	2:06	63.1
No Other Choice	194	1:32	63.8
Respectful Potential	200	2:14	63.9
Future Destination	200	2:05	63.9
Creation	190	1:24	64.2
Reunion	184	1:54	64.9
Critical Crystal	191	3:22	65.2
Royally Screwed	194	1:42	65.9
Hardcore Overdoze	182	2:12	66.5
Tower of Saints	194	1:49	66.5
Azul	195	2:06	66.7
3y3s	191	4:04	66.8
Air	187	2:20	68.1
One More Lovely	200	1:46	68.1
Red Lucifer Rising	192	3:53	68.1
Memoria Reborn	200	2:17	68.5
A Reyvateil's Curse	200	2:19	68.5
Valiant	186	1:48	69.0

Song	BPM	Time	%
Pure Ruby	178	2:03	69.1
Monolith Renaissance	196	1:59	69.1
No Other Choice	194	1:32	69.2
St. Scarhand	180	3:00	71.3
Respectful Potential	200	2:14	72.3
Higan Retour	200	2:10	72.6
Squartatrice	180	2:06	72.7
Gateway to Psycho	195	2:29	73.5
Crystal Wind	187	2:06	73.5
Thor	180	2:40	73.9
Himiko	185	2:04	74.5
Cyber Sparks	192	2:11	74.9
Critical Crystal	191	3:22	75.0
Vertex Beta	200	2:54	75.0
Omaeee	198	4:05	75.2
Grief & Malice	200	2:27	75.9
Quadraphinix	180	2:34	76.1
Love Wars	200	2:01	76.1
Galactic Astro Domination	200	1:26	76.1
Blue Zenith	200	4:05	76.3
Orbital Strike	180	5:03	77.4
Ecstasy 2007	190	2:01	77.5
Hardcore Overdoze	182	2:12	78.4
Beyond the Stars	170	2:42	78.5
World End's Yama Xanadu	190	5:27	79.4
Forgotten Ancient	186	5:30	79.6
Atmos Break	175	1:49	80.2
Division 4	180	5:02	82.8
Disconnected	200	3:28	83.3
Vertex Beta	200	2:54	83.8
Hollywood Galaxy	186	3:54	84.4
One More Lovely	200	1:46	84.4
St. Scarhand	180	3:00	85.0
Artemis	200	4:42	87.9
World End's Yama Xanadu	190	5:27	88.3
ApolloN	185	3:20	89.7
Paradise Lost	188	3:49	91.3
Thor	180	2:40	91.6
Alive in the Darkness	180	6:48	92.5

Time is measured from the first note to the last note.
100% ratio = 100% 16th stream
50% ratio = 100% 8th stream

Chart Details – Note Count

Song	BPM	Time	Notes	/min	Song	BPM	Time	Notes	/min	Song	BPM	Time	Notes	/min
Destination of the Heart	200	1:21	502	372	Creation	190	1:24	893	638	Cyber Sparks	192	2:11	1259	577
Creation	190	1:24	534	381	Pure Ruby	178	2:03	894	436	Critical Crystal	191	3:22	1263	375
Galactic Astro Domination	200	1:26	546	381	Reunion	184	1:54	903	475	3y3s	191	4:04	1270	312
Royally Screwed	194	1:42	609	358	Hardcore Overdoze	182	2:12	905	411	A Reyvateil's Curse	200	2:19	1272	549
Destination of the Heart	200	1:21	620	459	Quadraphinix	180	2:34	917	357	Respectful Potential	200	2:14	1296	580
Reunion	184	1:54	639	336	Grief & Malice	200	2:27	917	374	Unlimited Spark	185	3:09	1345	427
Tower of Saints	194	1:49	662	364	Himiko	185	2:04	917	444	Quadraphinix	180	2:34	1412	550
Crystal Wind	187	2:06	665	317	Valiant	186	1:48	927	515	Thor	180	2:40	1419	532
Azul	195	2:06	668	318	Azul	195	2:06	933	444	Gateway to Psycho	195	2:29	1422	573
Atmos Break	175	1:49	668	368	Tower of Saints	194	1:49	937	516	Beyond the Stars	170	2:42	1431	530
Valiant	186	1:48	670	372	Higan Retour	200	2:10	940	434	Unlimited Spark	185	3:09	1453	461
Himiko	185	2:04	671	325	Squartatrice	180	2:06	949	452	Grief & Malice	200	2:27	1481	604
One More Lovely	200	1:46	678	384	Ecstasy 2007	190	2:01	958	475	Red Lucifer Rising	192	3:53	1538	396
Hardcore Overdoze	182	2:12	685	311	One More Lovely	200	1:46	959	543	St. Scarhand	180	3:00	1551	517
No Other Choice	194	1:32	691	451	Monolith Renaissance	196	1:59	968	488	Critical Crystal	191	3:22	1670	496
Creation	190	1:24	697	498	Respectful Potential	200	2:14	970	434	Vertex Beta	200	2:54	1741	600
Destination of the Heart	200	1:21	702	520	Cyber Sparks	192	2:11	976	447	3y3s	191	4:04	1755	432
Ecstasy 2007	190	2:01	719	357	Air	187	2:20	986	423	Thor	180	2:40	1759	660
Galactic Astro Domination	200	1:26	725	506	Pure Ruby	178	2:03	1006	491	Red Lucifer Rising	192	3:53	1843	475
Royally Screwed	194	1:42	737	434	Memoria Reborn	200	2:17	1026	449	St. Scarhand	180	3:00	1849	616
Love Wars	200	2:01	744	369	Atmos Break	175	1:49	1027	565	Critical Crystal	191	3:22	1920	570
Cyber Sparks	192	2:11	745	341	Unlimited Spark	185	3:09	1030	327	Vertex Beta	200	2:54	1943	670
Future Destination	200	2:05	750	360	A Reyvateil's Curse	200	2:19	1045	451	Red Lucifer Rising	192	3:53	2028	522
Air	187	2:20	752	322	St. Scarhand	180	3:00	1055	352	Blue Zenith	200	4:05	2032	498
No Other Choice	194	1:32	755	492	Future Destination	200	2:05	1064	511	3y3s	191	4:04	2073	510
Monolith Renaissance	196	1:59	757	382	Hardcore Overdoze	182	2:12	1066	485	ApolloN	185	3:20	2209	663
Memoria Reborn	200	2:17	761	333	Monolith Renaissance	196	1:59	1073	541	Disconnected	200	3:28	2305	665
Pure Ruby	178	2:03	775	378	Higan Retour	200	2:10	1088	502	Ascension to Heaven	200	4:53	2419	495
Reunion	184	1:54	797	419	Azul	195	2:06	1089	519	Omaeee	198	4:05	2429	595
Squartatrice	180	2:06	801	381	Squartatrice	180	2:06	1094	521	Hollywood Galaxy	186	3:54	2443	626
Atmos Break	175	1:49	803	442	Grief & Malice	200	2:27	1109	453	Blue Zenith	200	4:05	2501	612
Tower of Saints	194	1:49	805	443	Himiko	185	2:04	1132	548	Paradise Lost	188	3:49	2616	685
Thor	180	2:40	810	304	Air	187	2:20	1133	486	Orbital Strike	180	5:03	2812	557
Valiant	186	1:48	815	453	Quadraphinix	180	2:34	1134	442	Division 4	180	5:02	3101	616
No Other Choice	194	1:32	819	534	Gateway to Psycho	195	2:29	1137	458	Forgotten Ancient	186	5:30	3259	593
Beyond the Stars	170	2:42	823	305	Beyond the Stars	170	2:42	1140	422	World End's Yama Xanadu	190	5:27	3289	603
Gateway to Psycho	195	2:29	864	348	Respectful Potential	200	2:14	1145	513	Artemis	200	4:42	3305	703
Royally Screwed	194	1:42	865	509	Crystal Wind	187	2:06	1152	549	World End's Yama Xanadu	190	5:27	3660	672
Galactic Astro Domination	200	1:26	877	612	One More Lovely	200	1:46	1189	673	Alive in the Darkness	180	6:48	4529	666
A Reyvateil's Curse	200	2:19	882	381	Ecstasy 2007	190	2:01	1191	591	Time is measured from the first note to the last note. Notes denote the total number of arrows.				
Crystal Wind	187	2:06	883	420	Love Wars	200	2:01	1230	610					
Future Destination	200	2:05	883	424	Memoria Reborn	200	2:17	1249	547					
Love Wars	200	2:01	892	442	Higan Retour	200	2:10	1254	579					

Chart Details – Breakdowns

Song	BPM	Time	Medium	Hard	Expert
3y3s	191	4:04		7-7-[9 G]-9-7* ... 15 ... 2 ... 7-4 . 1.5	41 ... 12 ... 15 ... 28 . 1.5
A Reyvateil's Curse	200	2:19		8 ... 14	7-7 ... 14 . 16-14
Air	187	2:20		8 .. [T&G] ... 17	8 .. 8 .. 16 ... 17
Alive in the Darkness	180	6:48			32 ... 32 .. 17 . 192
ApolloN	185	3:20			12 . 9.5-7.5 . 6* .. 1.5-25-1-1-1 . 5-1.5-1.5-1.5-1.5-1.5 . 2
Artemis	200	4:42			24 . 2 . 28 .. 7 . 31-16 . 9-2*-4-65 .. 7
Ascension to Heaven	200	4:53			30 .. 64 .. 32
Atmos Break	175	1:49		8-8 ... 8	8-14 .. 16 .. 8-8 ...
Azul	195	2:06		2-5 . 7*-2 . 2 . 2*-2* . 6 ... 2*-2* . 6	16 . 5* . 6 . 6 . 6 .. 6.5 . 6
Beyond the Stars	170	2:42		8 ... 8	16 ... 12 ... 12 . 17 . 12
Blue Zenith	200	4:05		2-1 . 2 .. 2*-8 .. 8 .. 32 ... 32	2 . 49 .. 38-8 .. 38-8
Creation	190	1:24		5 . 7	17 .. 16-8
Critical Crystal	191	3:22		2 .. 3-3 .. 12* ... 2-2-8*-2-3*-3- 2-10* .. 7* .. 9* .. 11*-3-3-8*	2-10* . 3-3 .. 8-3*-4-2*-7-4 .. 4*-2 .. 9*-7 . 8-8-12
Crystal Wind	187	2:06		4-4 ... 2-2-4-4-4 ... 4	5-11 .. 6 . 11-4 .. 4-3-11-4
Cyber Sparks	192	2:11		4 .. 3-8* ... 8* ... 12-2 .. 4-2*	13 . 3-8* ... 6 . 7-7-4 . 14 . 4-2*
Destination of the Heart	200	1:21		2* .. 4	2* .. 18
Disconnected	200	3:28			7-8-16 ... 7-8-16-3-12- 7-4 .. 22-1-8-3-4-4
Division 4	180	5:02			15-15-32 .. 1-16 .. 8*-16 ... 64
Ecstasy 2007	190	2:01		4* . 1-17 .. 2 .. 2 ... 8	4* . 18 .. 4 . 2 ... 33
Forgotten Ancient	186	5:30			67.5 ... 3.5-96 . 6-1
Future Destination	200	2:05	1-1-1-1 . 1	1-1-2-1-3 . 1 . 1 . 1 . 1 ... 7-4 . 1	15-8 . 1 . 1 . 1 . 1 . 18
Galactic Astro Domination	200	1:26		1.5 . 2* .. 3 ... 3 . 1.5 .. 3 .. 2	1.5 . 2* . 3 . 2 . 1.5-4 .. 8 .. 3 .. 5 . 4
Gateway to Psycho	195	2:29		6 . 16-16 .. [6 T&B] .. 2-14	12-3 ... [6 T&B] .. 2-14 ... 6 . 7
Grief & Malice	200	2:27		4 ... 3-4 . 3 ... 9	6 .. 30 ... 8 . 2 .. 17-9
Hardcore Overdoze	182	2:12		24 ... 2	48 ... 2
Higan Retour	200	2:10	8* ... 7* .. 6* . 32*	8*-8* .. 8-6* .. 6* . 6*-2-6*-2-6*-2-6*-2	8*-15-16-8* .. 6* . 6*- 2-6*-2-6*-2-6*-2
Himiko	185	2:04		[14 T&B] ... 11 .. 7-8	7-8-3*-9 ... 35
Hollywood Galaxy	186	3:54			24-23-16 .. 3-8 ... 8 .. 48
Love Wars	200	2:01		3.5 ... 5 ... 2 ... 4	3 .. 3.5 .. 16* .. 16.5 ... 21.5
Memoria Reborn	200	2:17		7 .. 2 ... 7-8 ... 8	8-7-8 ... 7-23-8

Chart Details – Breakdowns (Continued)

Song	BPM	Time	Medium	Hard	Expert
Monolith Renaissance	196	1:59		16 ... 10.5-3	16 ... 7-8 ... 10.5-4
No Other Choice	194	1:32	4 . 4 . 4 . 4	8 . 8 . 8	32
Omaeee	198	4:05			4-7-7-7 . 4*-4 ... 4-48 . 24.5 . 4
One More Lovely	200	1:46		9 . 8 ... 19.5	9 . 16-16 ... 19.5
Orbital Strike	180	5:03			8*-8 .. 4-32 ... 14 . 64
Paradise Lost	188	3:49			16-16-16 ... 16 .. 12 . 46-33
Pure Ruby	178	2:03	2 ... 8*	2 ... 5.5-2 ... 8* .. 8	2 ... 16 ... 8*-[1 24th*]-16
Quadraphinix	180	2:34		4 .. 4*-4 .. 4 ... 3 ... 7-11*-5	3 .. 8 .. 35 ... 7-8-11*-5
Red Lucifer Rising	192	3:53		1-1 ... 11*-2 .. 6* . 6* . 4* . 4 . 6* .. 5* ... 9*-3 .. 2-2 .. 2*-3-1	2 ... 2* .. 2-2-1*-6 . 2-1*-16 . 4 . 4 . 2* ... 2-2-1*-6 . 2 . 6-2 . 5-2
Respectful Potential	200	2:14	4* . 4* ... 5* ... 4* . 4*	4* . 4* ... 5* .. 2 ... 4 . 4-3-4* . 4*	4* . 4* ... 16 . 4 . 4.5 ... 12-3-4* . 4*
Reunion	184	1:54		[H] ... 9 ... [H]	8.5-[H] ... 17-[H]
Royally Screwed	194	1:42		8 .. 1-1-1-1-1-1-1-1	16 . 16
Squartatrice	180	2:06	2* .. 4*	7 ... 3* .. 14* . 6*	13 .. 3 .. 2* . 8*-8-8 .. 2
St. Scarhand	180	3:00		14*-18 .. 7* .. 4 .. 8 .. 9 .. 4 .. [8 G] .. 9	36-4-7*-8-5-8 .. 16 .. 4 . 8* .. 17
Thor	180	2:40		16 ... 7.5-16*-28 . 2-[8 G]	30 .. 22 . 8*-48
Tower of Saints	194	1:49		3 . 3 .. 8-4-2-4 ... 3	7-3-12-3-4 ... 11
Unlimited Spark	185	3:09		2 ... 7-7-7-7 ... 2 ... 8	2 ... 32 ... 2 ... 16
Valiant	186	1:48		8* .. 2 ... 4 . 4 .. 2	8*-8 ... 16 .. 2
Vertex Beta	200	2:54		8 .. 16 .. 8 .. 32 .. 8.5	48 ... 49
World End's Yama Xanadu	190	5:27		32 ... 16 ... 16 . 15* .. 17*-64-7*-9	64 ... 32 . 112

Time is measured from the first note to the last note.

Notation for Breakdowns

Only significant streams are noted down in a breakdown – in this case, the threshold is **2 measures** unless the stream is significant enough to note.

Stream Splits

- ≤ 1 measure (“link”)
- . > 1 to 4 measures
- .. > 4 to 16 measures
- ... > 16 measures

- * “Bursts” (stream notation)
- B “Bursts” (in a description)
- H Hands
- G Gallops
- T Triplets

No *exact* definition will be given for the term “burst”.

Courses (Marathons)

No gimmicks or mods. Just plain arrows.

Test your endurance with these pre-selected song lists – whether if it's a true stamina challenge, an artist collection, or just a pick of our favourites.

Good Choice (Rejects)

18:31 :: 175 – 198 :: 10544 (569.4)

[178] *Pure Ruby* [H]
[184] *Reunion* [X]
[175] *Atmos Break* [X]
[195] *Azul* [X]
[180] *Thor* [X]
[198] *Omaeee*
[186] *Hollywood Galaxy*

Whatever didn't make it to Type M made it to Type C, with the only exception of *Hollywood Galaxy*, an incredible song by dj TAKA to finish off the long 7-stage course.

Those who find M too difficult will be pleased to know C starts off at a much easier pace.

The songs are arranged in increasing number of steps and have similar genres to Type M with the addition of hints of DnB.

Music Pick

19:41 :: 180 – 200 :: 11863 (602.7)

[195] *Gateway to Psycho* [X]
[188] *Paradise Lost*
[180] *Division 4*
[200] *Disconnected*
[200] *Ascension to Heaven*

Type M consists of hardcore, piano, and a mix of both, consisting of the best music Lykan has to offer [in my opinion ;)] from artists such as B&B and Helblinde.

However, be warned that Type M is still fairly difficult – conserving strategy remains a key component, especially when it comes to the end.

The songs are ordered in difficulty, and thus Type M begins fast and eases into a slower speed before picking up again. *Gateway to Psycho* sums up early in the course what's to come.

Boss Rush

27:30 :: 180 – 200 :: 17565 (638.7)

[180] *Orbital Strike*
[186] *Forgotten Ancient*
[190] *World's End Yama Xanadu* [X]
[200] *Artemis*
[180] *Alive in the Darkness*

This stamina course is not for the faint-hearted: all of the songs with the longest streams are stacked one after another in Type X.

As the speed builds up gradually, more conserving methods are required before playing penultimate 200 BPM song *Artemis*, featuring difficult patterns end-game.

The final song to mark the end of the course is 180 BPM *Alive in the Darkness*, where the finish is a lengthy 192 measures away.

Zaia – Time-Themed Courses

Slowest Songs (Underclock)

13:40 :: 170 – 187

5582 (408.4) :: 7110 (520.2)

[170] *Beyond the Stars* [H/X]
[178] *Pure Ruby* [H/X]
[175] *Atmos Break* [H/X]
[187] *Air* [H/X]
[180] *Squartatrice* [H/X]
[180] *Thor* [M/H]

Players who have done a bit of DnB at the 174 BPM level will like this course.

Once you've passed Underclock, perhaps it's time to move onto something a little faster.

The intensity of the streams remain constant throughout the course. While stamina-trained players may be able to slack off a little due to the short duration of the course, decent length streams are scattered throughout.

Short Songs (Quick)

12:48 :: 175 – 200

6111 (477.4) :: 7299 (570.2)

[175] *Atmos Break* [H/X]
[194] *Royally Screwed* [H/X]
[200] *Destination of the Heart* [H/X]
[190] *Creation* [H/X]
[186] *Valiant* [H/X]
[200] *Galactic Astro Domination* [H/X]
[194] *No Other Choice* [H/X]
[200] *One More Lovely* [H/X]

A credit deserves to last longer than a mere six minutes of game play, especially when the double song limit is something around that. No song in this course is longer than 90 measures.

Following the Cirque tradition of stamina practice minus the exhaustion, Type Q gathers all the shortest songs in Lykan for you to play all at once.

As if it was a bonus, these songs vary in all kinds of different speeds.

Fastest Songs

15:29 :: 200 :: 8617 (556.5)

Respectful Potential [X]
Higan Retour [X]
Future Destination [X]
Love Wars [X]
Blue Zenith [H]
Vertex Beta [H]

A collection of all the short 200 BPM songs are put together for this pack (except for Blue Zenith) – great for practice around this speed.

The course begins with a strenuous start before easing a little in Future Destination, but quickly coming back at Love Wars. Once this is finished, Blue Zenith brings the breather before the final stretch of Vertex Beta.

Zaia – Song-Themed Courses

J-CO(u)R(s)E (Type J)

22:44 :: 180 – 188 :: 13997 (615.7)

[180] *Orbital Strike*
[188] *Paradise Lost*
[185] *ApolloN*
[186] *Forgotten Ancient*
[180] *Division 4*

J-Core is like hardcore – none of these songs have a hard or medium chart. Only 23 steps less per minute behind the boss course, this is not an easy mission.

All artists except for Sun3 have made songs for the Hardcore Tano*C label, whose members also include t+pazolite, REDALiCE, and DJ Noriken.

Division 4 is a teaser for an upcoming pack dedicated to B&B.

Originals

14:26 :: 187 – 200
7019 (486.3) :: 8231 (570.3)

[187] *Air* [H/X]
[191] *3y3s* [H/X]
[190] *Ecstasy 2007* [H/X]
[200] *One More Lovely* [H/X]
[200] *Vertex Beta* [H/X]
[200] *Destination of the Heart* [H/X]

Take a trip down memory lane (excuse the cliché) and play all of the classics of keyboard-style StepMania and ITG Edits of the 2000 decade – with charts remade for the 2010 decade.

From the trills of *Air*, the jumps of *One More Lovely*, the gimmicks of *3y3s* or the destruction of your \$20 speakers caused by *Vertex Beta*, there's something you're bound to remember.

Helblinde

18:03 :: 180 – 200 :: 10541 (583.9)

[200] *A Reyvateil's Curse* [X]
[200] *Grief & Malice* [X]
[200] *Memoria Reborn* [X]
[195] *Gateway to Psycho* [X]
[180] *Orbital Strike*
[200] *Disconnected*

You know Helblinde is going to be worth listening to if he's played at events in Japan with famous artists like Sharpnel or kors k.

This course brings together some of his preview songs for his upcoming album, consisting of anime OST remixes and his own original work.

When the time comes, prepare for some full-length stamina coming up your alley.

Play Time Duration :: BPM
Total Arrows (per minute) (Regular :: Intense)

Zaia – Compilations & Sorted Orders

These courses are compilations of various songs all aiming to range within the 13 – 15 minute mark with six songs.

The compilation courses, along with the other nine

courses, covers all of the fifty songs in Lykan.

In these four options, each course has a hard and expert chart for the normal and intense difficulties respectively.

Compared to the other courses, these are significantly easier, with average steps a minute in Normal ranging in the 460s and Intense in the 540s.

Steps per Minute		Total Step Count		16th Stream Ratio	
U	408.4	U	5582	CD	57.4
CA	441.9	CA	6061	U	57.9
CD	452.1	Q	6111	Q	58.5
CB	457.6	CB	6277	CA	58.7
CC	470.0	CD	6751	CB	59.1
Q	477.4	CC	6913	O	61.5
O	486.3	O	7019	CC	63.2
CA	520.0	U	7110	CD	68.7
U	520.2	CA	7133	CB	68.7
CB	532.1	CB	7298	CA	69.1
CD	540.9	Q	7299	F	69.5
CC	548.5	CD	8077	Q	69.9
F	556.5	CC	8173	O	72.2
C	569.4	O	8231	U	73.7
Q	570.2	F	8617	CC	74.7
O	570.3	H	10541	H	75.5
H	583.9	C	10544	C	76.4
M	602.7	M	11863	M	78.0
J	615.7	J	13997	J	83.3
X	638.7	X	17565	X	85.6

Option A

13:43 :: 185 – 200

6061 (441.9) :: 7133 (520.0)

[194] Tower of Saints [H/X]
[186] Valiant [H/X]
[200] A Reyvateil's Curse [H/X]
[185] Himiko [H/X]
[180] Quadraphinix [H/X]
[185] Unlimited Spark! [H/X]

Option B

13:43 :: 184 – 200

6277 (457.6) :: 7298 (532.1)

[196] Monolith Renaissance [H/X]
[195] Azul [H/X]
[200] Memoria Reborn [H/X]
[184] Reunion [H/X]
[187] Critical Crystal [H/X]
[200] Future Destination [H/X]

Option C

14:54 :: 180 – 192

6913 (470.0) :: 8173 (548.5)

[182] Hardcore Overdoze [H/X]
[187] Crystal Wind [H/X]
[192] Cyber Sparks [H/X]
[180] St. Scarhand [H/X]
[194] No Other Choice [H/X]
[192] Red Lucifer Rising [H/X]

Option D

14:56 :: 185 – 200

6751 (452.1) :: 8077 (540.9)

[191] 3y3s [H/X]
[200] Respectful Potential [H/X]
[185] Unlimited Spark! [H/X]
[200] Love Wars [H/X]
[185] Himiko [H/X]
[190] Creation [H/X]

Play Time Duration :: BPM
 Total Arrows (per minute) (Regular :: Intense)

Credits & Omake

Behind the scenes of Lykan

A tablet screen displaying a table of song credits. The table has columns for "BPM", "From", and "Sync Notes". A virtual keyboard is visible at the bottom of the screen.

	BPM	From	Sync Notes
	200		19, 63 +- 1/40ms (-0.028)
	200	200	2, 100 +- 1/40ms (-0.014)
	199.9988	200	2, 113 +- 1/5ms (-0.001)
	200		1, 93 +- 1/40ms (-0.007)
	199		1, 19 +- 1ms (-0.003)
	180		3, 221 +- 1ms (-0.003)
	180		2, 100 +- 1ms (-0.003)
	184		
	194		
	179.9142		
	193.9984	194	55 +- 3ms (-0.053)
	184.9609		1 +- 1/20ms (-0.004)
	186		3, +- 1ms (-0.008)
	190.0009	190	
	200		

Credits

Zaia

Project & Assets
Charts
Courses
Ratings & Notation
Chart Analysis

Zeph

Charts for ApolloN and
Beyond the Stars

silphur8

Sync
Courses & Commentary
Ratings & Notation
Chart Analysis
Readme Design
Course Banner Design

Alison (silphur8) from
Sydney did a shitload of
work, she's done:

- All syncing and BPM alterations (using some wizardry beyond my feeble mind)
- Counted measures for all difficulties and songs (I did this too independently and she did this badass write-up that I've included for perusal)
- Fair bit of play testing during the Beta phase, although she really did seem to want to play Gateway to Psycho the most (yes, another song that has the word GATE in its title)
- I've included her notes since she put a fair bit of effort into it and it would be a shame if nobody got to see that. Might be an interesting read for the people who are into stuff like

offsets and really small numbers.

Tristan (Zeph) contributed to ApolloN and Beyond the Stars.

Beyond the Stars is very close to what he made himself, ApolloN I had to rework a fair bit, but I still wish to credit his name. He made the Medium chart to Almighty Power of the Cosmos and the Hard chart to Smiting Down the Weak, both in Tachyon Epsilon.

Also, his image is featured on the alternate background image to Cirque du Lykan, featured in the release thread.

Other based people

Sara (Pez) for including Grief & Malice and Division 4 in the Intel Western Speed & Stamina tournament pack... she must've spent ages going through them all to pick those two.

silphur8

Hi there :)

First, credits to sharp-eyed Tristan when he found a sneaky 192nd arrow that needed removing in Atmos Break, hidden behind a hold. Nice find.

Shout outs to Syd regulars, testing the pack I clearly labelled as "DON'T PLAY ME", and bugging me that 3y3s is so not a 14+.

Though, in all honesty, I should thank Chino for letting me even have the opportunity to work on syncing and readme, and trying out stuff during Beta phase. It was much fun.

Oh, yes, I really do love Gateway and I hope to quad-/sarcasm.

Anyways, plz enjoy Boss Rush, your 192 measure streeeemz is waiting.

Here's to #430am nights,

- Alice

Images

W Motors SAL n.d., *W Motors*, viewed 4 Jan 2014, <http://www.wmotors.ae/hg_images/1376559029wmotors_hm_slide_01.jpg>.

Origins of Lykan

This pack can trace its roots back to December 2010 when Lachlan (B1uEM4oM4o) and I were just breaking into longer 185-200 songs.

We'd also just started listening to Nighthawk22 a lot and wanted to make a pack of all similar and (in our minds) *good* music. We split and found songs to add to the pack, and the following songs from that pack made it into this one:

- Pure Ruby
- Reunion
- Hardcore Overdoze
- Royally Screwed
- Valiant
- Monolith Renaissance
- Higan Retour
- Azul Remix
- Red Lucifer Rising
- Unlimited Spark!
- St. Scarhand
- Cyber Sparks

The tentative name for the pack would be *FFF47 Pack*, FFF standing for *Fucking Fantastic Freeform* and 47 being a tongue-in-cheek parody of many popular freeform artists such as Dimrain47 and other DJs like Spy47.

Whatever was happening, 47 seemed to be the in thing. Nighthawk**22** was another example, wtf was going on with these numbers?

The pack fell through on Boxing Day 2010 because my desktop computer overheated and fucked itself and that was really that. These finished charts ended up joining my miscellaneous folder to hopefully one day see the light of day.

I didn't start stepping more of them until 2012, and some of which were going to be in FFF47 ended up being in Cirque du Beast (Isolation, Cynthia, Joker, Protosphere). One of the Sharpnel songs that I'd wanted to include actually ended up being in Sharpnel itself (World Sound). Of course it had to be totally resteped at the time.

It wasn't until the early days of Cirque du Zonda (June 2013) that I seriously considered putting together a companion pack to Zonda that featured songs at the sub-200 BPM speed. As Zonda took shape and as I searched for more music, I found more that I thought would be suitable in what was now called Cirque du Agera (after the Koeniggsegg Agera R). Lykan expanded to about 20 songs for a cap of 30.

Zaia

When Zonda was complete and sent away for syncing, I put full attention to Agera and stepped around 25-30 songs in two weeks, with all three charts included. It was very quick and Agera was starting to reveal its own form. It soon became apparent that 30 wouldn't be enough, so I expanded it to 35 and decided to rename it Lykan (after the W Motors Lykan Hypersport).

Lykan, being a two syllable word, is easier to pronounce. I found Agera difficult to say after the word 'du', so I felt this made it unsuitable as an effective pack name.

Lykan quickly expanded to 40 songs, and with the inclusion of some more resteps it went to 45 and very quickly to 50. The addition of the latest albums from DJ Taka and Ryu* added a couple more in and the final songlist was finalised by December 27th.

As of writing (4 Jan) the pack is totally complete and ready for public release. I hope not need any revisions; I have checked everything possible and cannot foresee any issues.

Song Origins

Beyond the Stars Tristan stepped it first, I really liked song so I included

Air Restepped a classic in early 2013 then redid again for Lykan

Pure Ruby Lachlan stepped in Dec 2010 and I redid for now

Atmos Break Originally stepped in September 2008 and submitted to Groovestats. I redid it fully for Lykan's release

Reunion Lachlan stepped in 2010 and I redid some streams for Lykan. The concept of the hands was his idea though and I love it

Squartatrice One of the final songs I stepped for the pack just last week. I found it browsing BMS songs on YouTube. This is my favourite song in the pack musically

Destination of the Heart Needed to continue my trend of resteping Destination songs by adding this to it. I'd already stepped it once in 2010 but totally redid it for now.

Galactic Astro Domination Went hunting for any good Dragonforce songs and found this. Heart of the Storm was going to be in it but then I filled

the songlist with other more original stuff

Respectful Potential Tristan stepped it first, but he let me redo it completely for Lykan. The breakdowns are mostly the same, and the triplet section is the same as his

Hardcore Overdoze First stepped in April 2011 for FFF47, it had terrible patterning and a minefield speedup at the end. Totally resteped for Lykan

Royally Screwed First Kita Khyber song I stepped, in Dec 2010 but redid it fully for Lykan

Valiant Same story with Royally Screwed. I downloaded Kita K's own Flightmix Packs to get these.

Tower of Saints Found it in Icyworld's Nuclear Blast JS Awesome Bomb Filez 4 pack. This was the first song I stepped for the official Cirque du Agera pack after I started working on it fully

Crystal Wind Stepped in early 2013 but retouched for now

No Other Choice I had a candle-heavy version of this song from 2010 but it was just random candles, so I redid

the whole thing to make it flow better

Monolith Renaissance Ancient song from Groovestats, I first actually stepped this in November 2007 but then redid for 2010 and again for now

Creation Both Lachlan and I had made charts for this in early 2010, they were okay but nothing special.. I kinda combined them and made them better for Lykan. I had always been wanting to step this as soon as I first discovered it in Mungyodance

Higan Retour (Idling Mix) Really damn hard spread file, but it was a decent 200 song that I felt could make a good transition to pad. First stepped years ago

Azul Remix I stepped my original before Matt's came out in SSSC2, but who the hell was I at that time? Totally redone for Lykan, but kept a few of the original's patterns

Himiko Another song I'd just recently decided to add. Ninevolt's one has 24ths which is really fucking hard!

Critical Crystal I waited two months for this to come out, and

Zaia

this song is one of the reasons Lykan wasn't released a month ago. It did on Christmas Day and I was all over it as soon as I could get it

Red Lucifer Rising I've stepped this three times now, once for S21 Works, again in 2010 and AGAIN for now. I finally got it right the third time. Very happy with it.

Unlimited Spark! The Groovestats one for this was awful. I took it and made it good in 2011 and touched up for Lykan

St. Scarhand A classic, been resteped countless times for foot. The original version I made three years ago had a ~trick~ but I took it out. I kept some patterns verbatim though

Future Destination Another very recent addition, I did so to round out the Destination series and this is also my favorite Destination song

QuadrAPHINIX Got this from Nuclear Blast JS Awesome Bomb Filez 3, which is also where I found Abyssal. Fucking loved the song, and ended up downloading all of Bonkers to find others like it

Song Origins (Continued)

Ecstasy 2007 One of my favourite 190bpm songs. The old Bluemystic chart for it is pretty ass, but it was fun-ish at the time. It needs a redo for 2013

Memoria Reborn The second Helblinde song I stepped

Cyber Sparks Can't remember how I got this song, I think from some random anime/toho/weeaboo pack but the song stood out so well. I've seen others step this song too, but I haven't seen this song in any notable packs

Love Wars I used to play Xythar's chart a lot but when I sat down and looked at it, realised it was bad and so redid it from the ground up

A Reyvateil's Curse The first Helblinde song I stepped

Gateway to Psycho The fourth Helblinde song I stepped

Thor I love Thor from DJ MAX Technika and had always wanted to step it. 150 is kinda slow, but it sounds good even at 180 and had excellent stream potential

One More Lovely Restepping this made me feel like I was breaking some kind of taboo

Grief & Malice The third Helblinde song I stepped

3y3s I wanted to restep Zimlord's 3y3s because I didn't like it much, but then I found the long version and went for that

Orbital Strike Found this one whilst YouTube browsing for J-Core, very lucky find. This was the fifth Helblinde song I actually stepped but the first I listened to, and this is what led me to find him in the first place on Soundcloud

ApolloN Tristan had stepped this first but didn't like it. Originally I wasn't going to include it but then I played his updated chart and decided it was good enough. I retouched a bit and added his name to the front

Division 4 My favourite Betwixt & Between song, and a teaser for the future J-Core pack that I have in the works. This is my favourite chart in the pack

Hollywood Galaxy Found this listening to dj TAKA's latest album on Christmas, and loved it on the first listen

OMAE First found and stepped this in mid 2009, but it was so bad I buried it and

never looked at it again. Until October 2013... way ahead of you Fraxtil

Forgotten Ancient (Remix) A friend of mine sent me this, but it was at 162 and slow. But I really liked it even at that slow speed. It's even better at 186

Vertex BETA The ultimate taboo in my opinion. NOBODY resteps Vertex Beta. But I did. It took me 3 days to step this, far far longer than any other song at the same length. I really actually stepped this three times before settling on the final iteration

Paradise Lost A song I'd been listening to since late 2010 and had been wanting to step, but never got around to it. At the time I wasn't sure how much stream people could handle, but now's 2014 and its all piecemeal

Disconnected The sixth and most recent Helblinde song I stepped

Blue Zenith Found in Xi's album whilst obtaining Ascension to Heaven in July

Ascension to Heaven Was surprised when I found a full version of this whilst browsing YouTube. I had no idea a full

version existed when I made the one in Cirque du Beast.

Alive in the Darkness The final song stepped for the pack. I had been holding off including any Lv.4 songs but then caved and decided I needed at least *one*, since Betwixt & Between got *one* in too. Just wanted a streamdump heh

Artemis A fantastic song I found accidentally whilst browsing YouTube. This and Ascension to Heaven CV were going to be in Zonda but when Lykan started revealing its shape I decided to put them here where they belonged

World End's Yama Xanadu Loved this song from the very first listen (Hard Songs Megapack Volume 1). This is the oldest untouched chart in the pack... I stepped it in early 2013 and updated it very little

Zaia