

Extract from the ASPERA-4 VEX HK calibration database.

Date 2005-11-22

Values are taken from VE-ASP-DS-0012 (VERDI Database - I1R3).xls

The "CPOI" type of calibration data consists of x,y pairs that define the calibration curve. The "SVAL" type describes the meaning of the specific value of that HK parameter. The raw HK value is converted to engineering value when calibration is applied.

X-value

Y-value

Type CPOI : polynom, SVAL : Value to nemonic

Description

<b>X-value</b>	<b>Y-value</b>	<b>Type</b>	<b>Description</b>
0	-264,68	CPOI	ELS Temp
255	114,07	CPOI	ELS Temp
0	-268,18	CPOI	NPD1 Temp
255	116,74	CPOI	NPD1 Temp
0	-271,88	CPOI	NPD2 Temp
255	118,76	CPOI	NPD2 Temp
0	-265,38	CPOI	NPI Temp
255	154,56	CPOI	NPI Temp
0	-267,27	CPOI	Scanner Temp
255	115,84	CPOI	Scanner Temp
0	0	CPOI	HK_V_-12V
255	-13,22	CPOI	HK_V_-12V
0	0	CPOI	HK_V_-5V
255	-5,17	CPOI	HK_V_-5V
0	0	CPOI	HK_V_+5V
255	5,24	CPOI	HK_V_+5V
0	0	CPOI	HK_V_+12V
255	13,0769	CPOI	HK_V_+12V
0	0	CPOI	HK_V_+30V
255	30,165	CPOI	HK_V_+30V
0	0	CPOI	HK_I_+5V
255	2961,06	CPOI	HK_I_+5V
0	0	CPOI	HK_I_+30V
255	368,985	CPOI	HK_I_+30V
0	-149,6	CPOI	NPD1 Bias
255	4406,23	CPOI	NPD1 Bias
0	-149,6	CPOI	NPD1 Start
255	4406,23	CPOI	NPD1 Start
0	-34,402	CPOI	NPD1 Stop
255	4431,923	CPOI	NPD1 Stop
0	-41,42	CPOI	NPD2 Bias
255	4428,985	CPOI	NPD2 Bias
0	-41,42	CPOI	NPD2 Start
255	4428,985	CPOI	NPD2 Start
0	-70,65	CPOI	NPD2 Stop
255	4366,095	CPOI	NPD2 Stop
0	-30,659	CPOI	NPD1 Defl
255	5694,346	CPOI	NPD1 Defl
0	46,719	CPOI	NPD2 Defl
255	5612,859	CPOI	NPD2 Defl
0	27,885	CPOI	NPI Bias
255	-4654,935	CPOI	NPI Bias

0	-37,866 CPOI	NPI Defl
255	5696,574 CPOI	NPI Defl
0	0 CPOI	ELS MCP bias
255	3000 CPOI	ELS MCP bias
0	0 CPOI	Scanner Position
223	180 CPOI	Scanner Position
0,612	-200 CPOI	ASPERA 118MF PT2000 acq by RTU
0,898	-180 CPOI	ASPERA 118MF PT2000 acq by RTU
1,158	-160 CPOI	ASPERA 118MF PT2000 acq by RTU
1,4	-140 CPOI	ASPERA 118MF PT2000 acq by RTU
1,634	-120 CPOI	ASPERA 118MF PT2000 acq by RTU
1,86	-100 CPOI	ASPERA 118MF PT2000 acq by RTU
2,058	-80 CPOI	ASPERA 118MF PT2000 acq by RTU
2,248	-60 CPOI	ASPERA 118MF PT2000 acq by RTU
2,429	-40 CPOI	ASPERA 118MF PT2000 acq by RTU
2,6	-20 CPOI	ASPERA 118MF PT2000 acq by RTU
2,766	0 CPOI	ASPERA 118MF PT2000 acq by RTU
2,898	20 CPOI	ASPERA 118MF PT2000 acq by RTU
3,052	40 CPOI	ASPERA 118MF PT2000 acq by RTU
3,207	60 CPOI	ASPERA 118MF PT2000 acq by RTU
3,342	80 CPOI	ASPERA 118MF PT2000 acq by RTU
3,478	100 CPOI	ASPERA 118MF PT2000 acq by RTU
3,605	120 CPOI	ASPERA 118MF PT2000 acq by RTU
3,713	140 CPOI	ASPERA 118MF PT2000 acq by RTU
3,771	150 CPOI	ASPERA 118MF PT2000 acq by RTU
176	0 CPOI	Boot EEP incl. Context
191	15 CPOI	Boot EEP incl. Context
192	0 CPOI	Test pattern
207	15 CPOI	Test pattern
208	0 CPOI	Boot EEP excl. Context
223	15 CPOI	Boot EEP excl. Context
224	0 CPOI	IMA Internal SID nr
230	6 CPOI	IMA Internal SID nr
240	0 CPOI	Default boot section
255	15 CPOI	Default boot section
256	0 CPOI	Deflection level
351	95 CPOI	Deflection level
512	0 CPOI	Entrance level
527	15 CPOI	Entrance level
768	0 CPOI	SW start level
832	64 CPOI	SW start level
1024	0 CPOI	Spare level
1279	255 CPOI	Spare level
2560	0 CPOI	Mode cmd
2599	39 CPOI	Mode cmd
3072	0 CPOI	Reprog. all EEP sections
3087	15 CPOI	Reprog. all EEP sections
4096	0 CPOI	Opto reference
4103	7 CPOI	Opto reference
8192	0 CPOI	Mcp reference
8207	15 CPOI	Mcp reference
12288	0 CPOI	Grid reference
12295	7 CPOI	Grid reference
16384	0 CPOI	Pacc low ref.
16391	7 CPOI	Pacc low ref.
20480	0 CPOI	Pacc high ref.

20487	7 CPOI	Pacc high ref.
24576	0 CPOI	Deflection LV ref.
28671	4095 CPOI	Deflection LV ref.
28672	0 CPOI	Deflection HV ref.
32767	4095 CPOI	Deflection HV ref.
32768	0 CPOI	Entrance ref.
36863	4095 CPOI	Entrance ref.
36864	0 CPOI	Noise reduction
40959	4095 CPOI	Noise reduction
40960	0 CPOI	Fifo low mark
45055	4095 CPOI	Fifo low mark
45056	0 CPOI	Fifo high mark
49151	4095 CPOI	Fifo high mark
49152	0 CPOI	Fifo force mark
53247	4095 CPOI	Fifo force mark
53248	0 CPOI	Fifo clear mark
57343	4095 CPOI	Fifo clear mark
57344	0 CPOI	Ima scale factor
61439	4095 CPOI	Ima scale factor
0	0 CPOI	Opto HV monitor
255	5 CPOI	Opto HV monitor
0	0 CPOI	Deflection LV monitor
255	100 CPOI	Deflection LV monitor
0	0 CPOI	Grid LV monitor
255	12 CPOI	Grid LV monitor
0	-60 CPOI	DPU temperature
255	60 CPOI	DPU temperature
0	-5 CPOI	Upper entrance HV mon
511	5 CPOI	Upper entrance HV mon
0 OFF	SVAL	Generic ON/OFF
1 ON	SVAL	Generic ON/OFF
2 OFF	SVAL	Mcp 28V switch
3 ON	SVAL	Mcp 28V switch
4 OFF	SVAL	Opto 28V switch
5 ON	SVAL	Opto 28V switch
6 OFF	SVAL	Main 28V switch
7 ON	SVAL	Main 28V switch
8 OFF	SVAL	Pacc Hv switch
9 ON	SVAL	Pacc Hv switch
10 OFF	SVAL	Grid LV switch
11 ON	SVAL	Grid LV switch
12 OFF	SVAL	Entr HV switch
13 ON	SVAL	Entr HV switch
14 OFF	SVAL	Defl LV switch
15 ON	SVAL	Defl LV switch
16 OFF	SVAL	Defl HV switch
17 ON	SVAL	Defl HV switch
18 OFF	SVAL	Direct cmd sw.
19 ON	SVAL	Direct cmd sw.
20 OFF	SVAL	WD enabel sw.
21 ON	SVAL	WD enabel sw.
28 OFF	SVAL	Compr. switch
29 ON	SVAL	Compr. switch
30 OFF	SVAL	Alt.Pacc switch
31 ON	SVAL	Alt.Pacc switch
32 LOW	SVAL	Pacc. level

33	HIGH	SVAL	Pacc. level
34	OFF	SVAL	Auto red. sw.
35	ON	SVAL	Auto red. sw.
36	OFF	SVAL	Shadow masking
37	ON	SVAL	Shadow masking
38	OFF	SVAL	Bad. HV masking
39	ON	SVAL	Bad. HV masking
40	OFF	SVAL	Bad mass masking
41	ON	SVAL	Bad mass masking
0	Fixed	SVAL	Pacc.Op. Mode
1	Alternating	SVAL	Pacc.Op. Mode
0	No	SVAL	No/Yes
1	Yes	SVAL	No/Yes
0	Ok	SVAL	Ok/Overflow
1	Overflow	SVAL	Ok/Overflow
0	Ok	SVAL	Cmd status
1	Invalid	SVAL	Cmd status
2	Out of rang	SVAL	Cmd status
3	Erroneous	SVAL	Cmd status
0	Min	SVAL	IMA Internal Sid type
1	Norm	SVAL	IMA Internal Sid type
2	Burst	SVAL	IMA Internal Sid type
3	Cal	SVAL	IMA Internal Sid type
4	Spec	SVAL	IMA Internal Sid type
5	Test	SVAL	IMA Internal Sid type
6	Ima	SVAL	IMA Internal Sid type
0	Idle	SVAL	Mode
1	Void1	SVAL	Mode
2	Mspo	SVAL	Mode
3	Void2	SVAL	Mode
4	Msis	SVAL	Mode
5	Mexm	SVAL	Mode
6	Void3	SVAL	Mode
7	Void4	SVAL	Mode
8	Nrm0	SVAL	Mode
9	Nrm1	SVAL	Mode
10	Nrm2	SVAL	Mode
11	Nrm3	SVAL	Mode
12	Nrm4	SVAL	Mode
13	Nrm5	SVAL	Mode
14	Nrm6	SVAL	Mode
15	Nrm7	SVAL	Mode
16	Har0	SVAL	Mode
17	Har1	SVAL	Mode
18	Har2	SVAL	Mode
19	Har3	SVAL	Mode
20	Har4	SVAL	Mode
21	Har5	SVAL	Mode
22	Har6	SVAL	Mode
23	Har7	SVAL	Mode
24	Exm0	SVAL	Mode
25	Exm1	SVAL	Mode
26	Exm2	SVAL	Mode
27	Exm3	SVAL	Mode
28	Exm4	SVAL	Mode
29	Exm5	SVAL	Mode

30 Exm6	SVAL	Mode
31 Exm7	SVAL	Mode
32 Test	SVAL	Mode
33 Cal1	SVAL	Mode
34 Cal2	SVAL	Mode
35 Fake	SVAL	Mode
36 Void5	SVAL	Mode
37 Void6	SVAL	Mode
38 Void7	SVAL	Mode
39 Vcal8	SVAL	Mode
0 OFF	SVAL	dummy for ON/OFFs
1 ON	SVAL	dummy for ON/OFFs