

0.1 Special Software for the Reno 2008 Trip

The following filters were written for use in investigating the data captures made in Reno. In addition to these six Flex filters there are two batch files, a gnuplot control file and a control file for generating the document (this is it) its self.

Note that this full document is available in d:\TXB-Vicon\captures.

0.2 Batch files

1. HH.BAT: This is the primary script for processing a data capture file.

```
1 @echo off
2 rem $Header: d:/Binder4/sda2/RCS/Hh.bat,v 1.2 2008-06-10 09:21:01-07 Hamilton Exp Hamilton $
3 rem copy original.harrah\%1.txt %1.cap
4 dir %1.txt | tail -3 | head -1
5 makesecs %1.txt %1.out
6 enbl %1.out %1.nbl
7 getdce %1.nbl %1.dce
8 getdte %1.nbl %1.dte
9 ProcDce %1.dce %1.pc
10 copy %1.pc+%1.dte %1.msg
11 qsort %1.msg %1.dat /22:13
12 IdIt %1.dat %1.pol
13 IdStatus %1.dat %1.sts
14 copy %1.pol+%1.sts %1.all
15 qsort %1.all %1.srt /22:13
16 NoStatus %1.srt %1.nos
17 GetSpeed %1.nos %1.spd
18 JustSpd %1.spd %1.plt
```

2. PLOTUM.BAT: This script runs GNUPLLOT with PLOT.GP to generate the various plot figures.

```
1 @echo off
2 rem $Header: d:/Binder4/sda2/RCS/Plotum.bat,v 1.1 2008-06-10 07:58:50-07 Hamilton Exp Hamilton $
3 head -2 H06.plt > h06a.plt
4 head -1502 h06.plt | tail -500 >> h06a.plt
5 head -2 H06.plt > h06b.plt
6 head -1312 h06.plt | tail -225 >> h06b.plt
7 gnuplot plot.gp
```

¹\$Header: d:/Binder4/sda2/RCS/DocSdaq.tex,v 1.1 2009-06-24 12:29:46-07 Hamilton Exp Hamilton \$

0.2.1 reno03.txt Reno Test File

1 FTS capture buffer (5/15/2008 7:55:13 PM)
 2 Event 1 (5/15/2008 7:52:50.801500 PM) through
 3 Event 17,156 (5/15/2008 7:54:49.955976 PM)
 4

Sd	Event#	Timestamp	Hx
DCE	1	5/15/2008 7:52:50.801500 PM	88
DCE	2	5/15/2008 7:52:50.802539 PM	0b
DTE	3	5/15/2008 7:52:50.805679 PM	02
DCE	4	5/15/2008 7:52:50.821292 PM	88
DCE	5	5/15/2008 7:52:50.822333 PM	0b
DTE	6	5/15/2008 7:52:50.825360 PM	02
DCE	7	5/15/2008 7:52:50.833791 PM	84
DCE	8	5/15/2008 7:52:50.834827 PM	06
DCE	9	5/15/2008 7:52:50.861817 PM	88
DCE	10	5/15/2008 7:52:50.862854 PM	0b
DTE	11	5/15/2008 7:52:50.866078 PM	02
DCE	12	5/15/2008 7:52:50.877961 PM	87
DCE	13	5/15/2008 7:52:50.879001 PM	0f
DCE	14	5/15/2008 7:52:50.911194 PM	88
DCE	15	5/15/2008 7:52:50.912231 PM	0b
DTE	16	5/15/2008 7:52:50.915439 PM	02
DCE	17	5/15/2008 7:52:50.926399 PM	89
DCE	18	5/15/2008 7:52:50.927438 PM	01
DCE	19	5/15/2008 7:52:50.959315 PM	89
DCE	20	5/15/2008 7:52:50.960355 PM	06
DCE	21	5/15/2008 7:52:50.991926 PM	88
DCE	22	5/15/2008 7:52:50.992965 PM	0b
DTE	23	5/15/2008 7:52:50.996253 PM	02
DCE	24	5/15/2008 7:52:51.007236 PM	8b
DCE	25	5/15/2008 7:52:51.008278 PM	03
DCE	26	5/15/2008 7:52:51.038695 PM	8b
DCE	27	5/15/2008 7:52:51.039736 PM	05
DCE	28	5/15/2008 7:52:51.071403 PM	88
DCE	29	5/15/2008 7:52:51.072445 PM	0b
DTE	30	5/15/2008 7:52:51.075609 PM	02
DCE	31	5/15/2008 7:52:51.086611 PM	8d
DCE	32	5/15/2008 7:52:51.087654 PM	07
DCE	33	5/15/2008 7:52:51.111611 PM	88
DCE	34	5/15/2008 7:52:51.112653 PM	0b
DTE	35	5/15/2008 7:52:51.115914 PM	02
DCE	36	5/15/2008 7:52:51.125576 PM	8e
DCE	37	5/15/2008 7:52:51.126611 PM	00
DCE	38	5/15/2008 7:52:51.162868 PM	88
DCE	39	5/15/2008 7:52:51.163909 PM	0b
DTE	40	5/15/2008 7:52:51.167047 PM	02
DCE	41	5/15/2008 7:52:51.182763 PM	88
DCE	42	5/15/2008 7:52:51.183805 PM	0b
DTE	43	5/15/2008 7:52:51.186728 PM	02
DCE	44	5/15/2008 7:52:51.200785 PM	88
DCE	45	5/15/2008 7:52:51.201826 PM	0b
DTE	46	5/15/2008 7:52:51.204957 PM	02
DCE	47	5/15/2008 7:52:51.218909 PM	88
DCE	48	5/15/2008 7:52:51.219951 PM	0b
DTE	49	5/15/2008 7:52:51.222972 PM	02
DCE	50	5/15/2008 7:52:51.239013 PM	88
DCE	51	5/15/2008 7:52:51.240055 PM	0b
DTE	52	5/15/2008 7:52:51.243175 PM	02
DCE	53	5/15/2008 7:52:51.254534 PM	89
DCE	54	5/15/2008 7:52:51.255576 PM	09
DCE	55	5/15/2008 7:52:51.281729 PM	88
DCE	56	5/15/2008 7:52:51.282770 PM	0b
DTE	57	5/15/2008 7:52:51.286084 PM	02
DCE	58	5/15/2008 7:52:51.296729 PM	8a
DCE	59	5/15/2008 7:52:51.297874 PM	0e
DCE	60	5/15/2008 7:52:51.329854 PM	8b
DCE	61	5/15/2008 7:52:51.330895 PM	06
DCE	62	5/15/2008 7:52:51.362458 PM	88
DCE	63	5/15/2008 7:52:51.363499 PM	0b
DTE	64	5/15/2008 7:52:51.366689 PM	02
DCE	65	5/15/2008 7:52:51.382458 PM	88

DCE	66	5/15/2008 7:52:51.383499 PM	0b
DTE	67	5/15/2008 7:52:51.386579 PM	02
DCE	68	5/15/2008 7:52:51.396943 PM	8e
DCE	69	5/15/2008 7:52:51.397985 PM	08
DCE	70	5/15/2008 7:52:51.429652 PM	8e
DCE	71	5/15/2008 7:52:51.430693 PM	09
DCE	72	5/15/2008 7:52:51.463090 PM	88
DCE	73	5/15/2008 7:52:51.464131 PM	0b
DTE	74	5/15/2008 7:52:51.467392 PM	02
DCE	75	5/15/2008 7:52:51.483089 PM	88
DCE	76	5/15/2008 7:52:51.484235 PM	0b
DTE	77	5/15/2008 7:52:51.487288 PM	02
DCE	78	5/15/2008 7:52:51.502985 PM	88
DCE	79	5/15/2008 7:52:51.504027 PM	0b
DTE	80	5/15/2008 7:52:51.506969 PM	02
DCE	81	5/15/2008 7:52:51.521526 PM	88
DCE	82	5/15/2008 7:52:51.522568 PM	0b
DTE	83	5/15/2008 7:52:51.525712 PM	02
DCE	84	5/15/2008 7:52:51.534554 PM	86
DCE	85	5/15/2008 7:52:51.535596 PM	0c
DCE	86	5/15/2008 7:52:51.569138 PM	86
DCE	87	5/15/2008 7:52:51.570179 PM	0f
DCE	88	5/15/2008 7:52:51.604138 PM	88
DCE	89	5/15/2008 7:52:51.605179 PM	0b
DTE	90	5/15/2008 7:52:51.608505 PM	02
DCE	91	5/15/2008 7:52:51.624242 PM	88
DCE	92	5/15/2008 7:52:51.625283 PM	0b
DTE	93	5/15/2008 7:52:51.628401 PM	02
DCE	94	5/15/2008 7:52:51.638095 PM	8a
DCE	95	5/15/2008 7:52:51.639137 PM	01
DCE	96	5/15/2008 7:52:51.660701 PM	8a
DCE	97	5/15/2008 7:52:51.661748 PM	0a
DCE	98	5/15/2008 7:52:51.694144 PM	88
DCE	99	5/15/2008 7:52:51.695185 PM	0b
DTE	100	5/15/2008 7:52:51.698382 PM	02
DCE	101	5/15/2008 7:52:51.708624 PM	8c
DCE	102	5/15/2008 7:52:51.709664 PM	0d
DCE	103	5/15/2008 7:52:51.734352 PM	88
DCE	104	5/15/2008 7:52:51.735394 PM	0b
DTE	105	5/15/2008 7:52:51.738688 PM	02
DCE	106	5/15/2008 7:52:51.749352 PM	8f
DCE	107	5/15/2008 7:52:51.750393 PM	00
DCE	108	5/15/2008 7:52:51.780814 PM	8f
DCE	109	5/15/2008 7:52:51.781852 PM	03
DCE	110	5/15/2008 7:52:51.813630 PM	88
DCE	111	5/15/2008 7:52:51.814671 PM	0b
DTE	112	5/15/2008 7:52:51.817835 PM	02
DCE	113	5/15/2008 7:52:51.833213 PM	88
DCE	114	5/15/2008 7:52:51.834254 PM	0b
DTE	115	5/15/2008 7:52:51.837307 PM	02
DCE	116	5/15/2008 7:52:51.851235 PM	88
DCE	117	5/15/2008 7:52:51.852275 PM	0b
DTE	118	5/15/2008 7:52:51.855322 PM	02
DCE	119	5/15/2008 7:52:51.871025 PM	88
DCE	120	5/15/2008 7:52:51.872067 PM	0b
DTE	121	5/15/2008 7:52:51.875010 PM	02
DCE	122	5/15/2008 7:52:51.890713 PM	88
DCE	123	5/15/2008 7:52:51.891754 PM	0b
DTE	124	5/15/2008 7:52:51.894691 PM	02
DCE	125	5/15/2008 7:52:51.910505 PM	88
DCE	126	5/15/2008 7:52:51.911546 PM	0b
DTE	127	5/15/2008 7:52:51.914580 PM	02
DCE	128	5/15/2008 7:52:51.930296 PM	88
DCE	129	5/15/2008 7:52:51.931338 PM	0b
DTE	130	5/15/2008 7:52:51.934267 PM	02
DCE	131	5/15/2008 7:52:51.950094 PM	88
DCE	132	5/15/2008 7:52:51.951135 PM	0b
DTE	133	5/15/2008 7:52:51.954156 PM	02

0.3 GetSpeed

GETSPEED.L: This filter extracts pan/tilt speeds from the interpreted capture data.

1. This filter is written in Flex.
2. This filter is suitable for use with Vicon's Protocols only.
3. This filter requires preprocessing by MAKESECS.
4. This filter is sensitive to having DCE (for data coming from the Keyboard) and DTE (for data coming from the Dome) having data coming from the Headend/Keyboard or the Dome/Camera.
5. Batch file Hh.bat (Section 0.2, page 1) shows use of this command.
6. **Listing of: hh03.nos a typical input file.**

```

1
2
3 2558, 2558: DTE 8260 57.477922 0.003307 41
4 2559, 5707: DCE 8266 57.524199 0.041667 88 5b 00 00 00 00 00 00 00:
5 2561, 2562: DTE 8282 57.618724 0.001144 41
6 2562, 5725: DCE 8288 57.663164 0.039897 88 5b 00 00 00 00 00 08 00 00: Pan Speed 1,
7 2563, 2565: DTE 8301 57.737447 0.003555 41
8 2564, 5741: DCE 8307 57.783210 0.041186 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
9 2568, 2571: DTE 8329 57.918025 0.001042 41
10 2569, 5763: DCE 8335 57.964427 0.041876 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
11 2575, 2579: DTE 8363 58.139328 0.001041 41
12 2579, 2584: DTE 8382 58.291587 0.003287 41
13 2583, 2589: DTE 8405 58.468318 0.003345 41
14 2588, 2595: DTE 8431 58.669726 0.001039 41
15 2590, 2598: DTE 8448 58.810006 0.003561 41
16 2595, 2604: DTE 8470 58.981215 0.000873 41
17 2598, 2608: DTE 8486 59.115044 0.001043 41
18 2601, 2612: DTE 8506 59.271568 0.001040 41
19 2602, 5899: DCE 8512 59.316158 0.040000 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
20 2618, 2630: DTE 8570 59.681575 0.001090 41

```

7. **Listing of: hh03.spd a typical output file.**

```

1 2562, 5725: DCE 8288 57.663164 0.039897 88 5b 00 00 00 00 00 08 00 00: Pan Speed 1,
2 2564, 5741: DCE 8307 57.783210 0.041186 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
3 2569, 5763: DCE 8335 57.964427 0.041876 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
4 2602, 5899: DCE 8512 59.316158 0.040000 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
5 2654, 6057: DCE 8728 60.838736 0.040424 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
6 2656, 6073: DCE 8747 60.958639 0.039695 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
7 2658, 6089: DCE 8766 61.078954 0.040167 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
8 2661, 6107: DCE 8788 61.219480 0.041773 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
9 2667, 6141: DCE 8830 61.519394 0.041732 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
10 2675, 6175: DCE 8874 61.830343 0.039894 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
11 2695, 6233: DCE 8954 62.389786 0.038374 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
12 2701, 6257: DCE 8985 62.601841 0.040424 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
13 2773, 6471: DCE 9281 64.786216 0.036667 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
14 2776, 6489: DCE 9303 64.926952 0.041564 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
15 2789, 6547: DCE 9377 65.466354 0.042188 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
16 2808, 6615: DCE 9468 66.149719 0.039897 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
17 2836, 6707: DCE 9593 67.070289 0.038026 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
18 2891, 6873: DCE 9821 68.756307 0.041258 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
19 2893, 6889: DCE 9840 68.874849 0.040312 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,
20 2895, 6905: DCE 9859 68.996522 0.041667 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed 1,

```

0.4 IdIt

IdIt.L: This filter breaks down the capture data for common data types. There is no filter available for some of the data capture file types.

1. This filter is written in Flex.
2. This filter is suitable for use with Vicon's Protocols only.
3. This filter requires preprocessing by MAKESECS.
4. This filter is sensitive to having DCE (for data coming from the Keyboard) and DTE (for data coming from the Dome) having data coming from the Headend/Keyboard or the Dome/Camera.
5. Batch file Hh.bat (Section 0.2, page 1) shows use of this command.
6. **Listing of: hh03.dat a typical input file.**

```

1
2
3      1,      1: DCE      1      0.000000      0.000000 88 0b
4      2,      3: DCE      4      0.019792      0.001039 88 0b
5      2,      2: DTE      6      0.023860      0.003027 02
6      3,      5: DCE      7      0.032291      0.008431 84 06
7      3,      7: DCE      9      0.060317      0.026990 88 0b
8      3,      3: DTE     11      0.064578      0.001037 02
9      4,      9: DCE     12      0.076461      0.001037 87 0f
10     4,     11: DCE     14      0.109694      0.001037 88 0b
11     4,      4: DTE     16      0.113939      0.003208 02
12     5,     13: DCE     17      0.124899      0.010960 89 01
13     5,     15: DCE     19      0.157815      0.031877 89 06
14     5,     17: DCE     21      0.190426      0.031571 88 0b
15     5,      5: DTE     23      0.194753      0.001039 02
16     6,     19: DCE     24      0.205736      0.001039 8b 03
17     6,     21: DCE     26      0.237195      0.001039 8b 05
18     6,     23: DCE     28      0.269903      0.001039 88 0b
19     6,      6: DTE     30      0.274109      0.003164 02
20     7,     25: DCE     31      0.285111      0.011002 8d 07

```

7. **Listing of: hh03.pol a typical output file.**

```

1      1,      1: DCE      1      0.000000      0.000000 88 0b      : 139 Status Poll Request
2      2,      3: DCE      4      0.019792      0.001039 88 0b      : 139 Status Poll Request
3      3,      5: DCE      7      0.032291      0.008431 84 06      : 70 Status Poll Request
4      3,      7: DCE      9      0.060317      0.026990 88 0b      : 139 Status Poll Request
5      4,      9: DCE     12      0.076461      0.001037 87 0f      : 127 Status Poll Request
6      4,     11: DCE     14      0.109694      0.001037 88 0b      : 139 Status Poll Request
7      5,     13: DCE     17      0.124899      0.010960 89 01      : 145 Status Poll Request
8      5,     15: DCE     19      0.157815      0.031877 89 06      : 150 Status Poll Request
9      5,     17: DCE     21      0.190426      0.031571 88 0b      : 139 Status Poll Request
10     6,     19: DCE     24      0.205736      0.001039 8b 03      : 179 Status Poll Request
11     6,     21: DCE     26      0.237195      0.001039 8b 05      : 181 Status Poll Request
12     6,     23: DCE     28      0.269903      0.001039 88 0b      : 139 Status Poll Request
13     7,     25: DCE     31      0.285111      0.011002 8d 07      : 215 Status Poll Request
14     7,     27: DCE     33      0.310111      0.023957 88 0b      : 139 Status Poll Request
15     8,     29: DCE     36      0.324076      0.001042 8e 00      : 224 Status Poll Request
16     8,     31: DCE     38      0.361368      0.001042 88 0b      : 139 Status Poll Request
17     9,     33: DCE     41      0.381263      0.015716 88 0b      : 139 Status Poll Request
18    10,     35: DCE     44      0.399285      0.001042 88 0b      : 139 Status Poll Request
19    11,     37: DCE     47      0.417409      0.013952 88 0b      : 139 Status Poll Request
20    12,     39: DCE     50      0.437513      0.001042 88 0b      : 139 Status Poll Request

```

0.5 IdStatus

IdSTATUS.L: This filter identifies status commands.

1. This filter is written in Flex.
2. This filter is suitable for use with Vicon's Protocols only.
3. This filter requires preprocessing by MAKESECS.
4. This filter is sensitive to having DCE (for data coming from the Keyboard) and DTE (for data coming from the Dome) having data coming from the Headend/Keyboard or the Dome/Camera.
5. Batch file Hh.bat (Section 0.2, page 1) shows use of this command.
6. **Listing of: hh03.pol a typical input file.**

1	1,	1: DCE	1	0.000000	0.000000 88 0b	: 139 Status Poll Request
2	2,	3: DCE	4	0.019792	0.001039 88 0b	: 139 Status Poll Request
3	3,	5: DCE	7	0.032291	0.008431 84 06	: 70 Status Poll Request
4	3,	7: DCE	9	0.060317	0.026990 88 0b	: 139 Status Poll Request
5	4,	9: DCE	12	0.076461	0.001037 87 0f	: 127 Status Poll Request
6	4,	11: DCE	14	0.109694	0.001037 88 0b	: 139 Status Poll Request
7	5,	13: DCE	17	0.124899	0.010960 89 01	: 145 Status Poll Request
8	5,	15: DCE	19	0.157815	0.031877 89 06	: 150 Status Poll Request
9	5,	17: DCE	21	0.190426	0.031571 88 0b	: 139 Status Poll Request
10	6,	19: DCE	24	0.205736	0.001039 8b 03	: 179 Status Poll Request
11	6,	21: DCE	26	0.237195	0.001039 8b 05	: 181 Status Poll Request
12	6,	23: DCE	28	0.269903	0.001039 88 0b	: 139 Status Poll Request
13	7,	25: DCE	31	0.285111	0.011002 8d 07	: 215 Status Poll Request
14	7,	27: DCE	33	0.310111	0.023957 88 0b	: 139 Status Poll Request
15	8,	29: DCE	36	0.324076	0.001042 8e 00	: 224 Status Poll Request
16	8,	31: DCE	38	0.361368	0.001042 88 0b	: 139 Status Poll Request
17	9,	33: DCE	41	0.381263	0.015716 88 0b	: 139 Status Poll Request
18	10,	35: DCE	44	0.399285	0.001042 88 0b	: 139 Status Poll Request
19	11,	37: DCE	47	0.417409	0.013952 88 0b	: 139 Status Poll Request
20	12,	39: DCE	50	0.437513	0.001042 88 0b	: 139 Status Poll Request

7. **Listing of: hh03.sts a typical output file.**

1						
2						
3	2,	2: DTE	6	0.023860	0.003027 02:	Auto Iris Status
4	3,	3: DTE	11	0.064578	0.001037 02:	Auto Iris Status
5	4,	4: DTE	16	0.113939	0.003208 02:	Auto Iris Status
6	5,	5: DTE	23	0.194753	0.001039 02:	Auto Iris Status
7	6,	6: DTE	30	0.274109	0.003164 02:	Auto Iris Status
8	7,	7: DTE	35	0.314414	0.001042 02:	Auto Iris Status
9	8,	8: DTE	40	0.365547	0.003138 02:	Auto Iris Status
10	9,	9: DTE	43	0.385228	0.001042 02:	Auto Iris Status
11	10,	10: DTE	46	0.403457	0.003131 02:	Auto Iris Status
12	11,	11: DTE	49	0.421472	0.001042 02:	Auto Iris Status
13	12,	12: DTE	52	0.441675	0.003120 02:	Auto Iris Status
14	13,	13: DTE	57	0.484584	0.001041 02:	Auto Iris Status
15	14,	14: DTE	64	0.565189	0.003190 02:	Auto Iris Status
16	15,	15: DTE	67	0.585079	0.001041 02:	Auto Iris Status
17	16,	16: DTE	74	0.665892	0.003261 02:	Auto Iris Status
18	17,	17: DTE	77	0.685788	0.001146 02:	Auto Iris Status
19	18,	18: DTE	80	0.705469	0.002942 02:	Auto Iris Status
20	19,	19: DTE	83	0.724212	0.001042 02:	Auto Iris Status

0.6 JustSped

JUSTSPED.L: This filter extracts just the pan speeds from an interpreted capture file.

1. This filter is written in Flex.
2. This filter is suitable for use with Vicon's Protocols only.
3. This filter requires preprocessing by MAKESECS.
4. This filter is sensitive to having DCE (for data coming from the Keyboard) and DTE (for data coming from the Dome) having data coming from the Headend/Keyboard or the Dome/Camera.
5. Batch file Hh.bat (Section 0.2, page 1) shows use of this command.
6. **Listing of: hh03.spd a typical input file.**

```

1  2562,    5725: DCE    8288    57.663164    0.039897 88 5b 00 00 00 00 00 08 00 00: Pan Speed      1,
2  2564,    5741: DCE    8307    57.783210    0.041186 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
3  2569,    5763: DCE    8335    57.964427    0.041876 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
4  2602,    5899: DCE    8512    59.316158    0.040000 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
5  2654,    6057: DCE    8728    60.838736    0.040424 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
6  2656,    6073: DCE    8747    60.958639    0.039695 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
7  2658,    6089: DCE    8766    61.078954    0.040167 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
8  2661,    6107: DCE    8788    61.219480    0.041773 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
9  2667,    6141: DCE    8830    61.519394    0.041732 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
10 2675,    6175: DCE    8874    61.830343    0.039894 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
11 2695,    6233: DCE    8954    62.389786    0.038374 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
12 2701,    6257: DCE    8985    62.601841    0.040424 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
13 2773,    6471: DCE    9281    64.786216    0.036667 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
14 2776,    6489: DCE    9303    64.926952    0.041564 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
15 2789,    6547: DCE    9377    65.466354    0.042188 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
16 2808,    6615: DCE    9468    66.149719    0.039897 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
17 2836,    6707: DCE    9593    67.070289    0.038026 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
18 2891,    6873: DCE    9821    68.756307    0.041258 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
19 2893,    6889: DCE    9840    68.874849    0.040312 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,
20 2895,    6905: DCE    9859    68.996522    0.041667 88 5b 21 00 00 00 00 08 00 00: Pan Right, Pan Speed  1,

```

7. **Listing of: hh03.plt a typical output file.**

```

1  # $Header: d:/Binder4/sda2/RCS/Hh03.plt,v 1.1 2008-06-10 09:25:19-07 Hamilton Exp Hamilton $
2  # From hh03.spd
3      1
4      1
5      1
6      1
7      1
8      1
9      1
10     1
11     1
12     1
13     1
14     1
15     1
16     1
17     1
18     1
19     1
20     1

```

0.7 NoStatus

NOSTATUS.L: This filter dumps all status commands.

1. This filter is written in Flex.
2. This filter is suitable for use with Vicon's Protocols only.
3. This filter requires preprocessing by MAKESECS.
4. This filter is sensitive to having DCE (for data coming from the Keyboard) and DTE (for data coming from the Dome) having data coming from the Headend/Keyboard or the Dome/Camera.
5. Batch file Hh.bat (Section 0.2, page 1) shows use of this command.
6. **Listing of: hh03.srt a typical input file.**

```

1
2
3      1,      1: DCE      1      0.000000 0.000000 88 0b      : 139 Status Poll Request
4      2,      3: DCE      4      0.019792 0.001039 88 0b      : 139 Status Poll Request
5      2,      2: DTE      6      0.023860 0.003027 02:      Auto Iris Status
6      3,      5: DCE      7      0.032291 0.008431 84 06      : 70 Status Poll Request
7      3,      7: DCE      9      0.060317 0.026990 88 0b      : 139 Status Poll Request
8      3,      3: DTE     11      0.064578 0.001037 02:      Auto Iris Status
9      4,      9: DCE     12      0.076461 0.001037 87 0f      : 127 Status Poll Request
10     4,     11: DCE     14      0.109694 0.001037 88 0b      : 139 Status Poll Request
11     4,      4: DTE     16      0.113939 0.003208 02:      Auto Iris Status
12     5,     13: DCE     17      0.124899 0.010960 89 01      : 145 Status Poll Request
13     5,     15: DCE     19      0.157815 0.031877 89 06      : 150 Status Poll Request
14     5,     17: DCE     21      0.190426 0.031571 88 0b      : 139 Status Poll Request
15     5,      5: DTE     23      0.194753 0.001039 02:      Auto Iris Status
16     6,     19: DCE     24      0.205736 0.001039 8b 03      : 179 Status Poll Request
17     6,     21: DCE     26      0.237195 0.001039 8b 05      : 181 Status Poll Request
18     6,     23: DCE     28      0.269903 0.001039 88 0b      : 139 Status Poll Request
19     6,      6: DTE     30      0.274109 0.003164 02:      Auto Iris Status
20     7,     25: DCE     31      0.285111 0.011002 8d 07      : 215 Status Poll Request

```

7. **Listing of: hh03.nos a typical output file.**

```

1
2
3 2558, 2558: DTE 8260 57.477922 0.003307 41
4 2559, 5707: DCE 8266 57.524199 0.041667 88 5b 00 00 00 00 00 00 00:
5 2561, 2562: DTE 8282 57.618724 0.001144 41
6 2562, 5725: DCE 8288 57.663164 0.039897 88 5b 00 00 00 00 00 08 00 00: Pan Speed      1,
7 2563, 2565: DTE 8301 57.737447 0.003555 41
8 2564, 5741: DCE 8307 57.783210 0.041186 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed      1,
9 2568, 2571: DTE 8329 57.918025 0.001042 41
10 2569, 5763: DCE 8335 57.964427 0.041876 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed      1,
11 2575, 2579: DTE 8363 58.139328 0.001041 41
12 2579, 2584: DTE 8382 58.291587 0.003287 41
13 2583, 2589: DTE 8405 58.468318 0.003345 41
14 2588, 2595: DTE 8431 58.669726 0.001039 41
15 2590, 2598: DTE 8448 58.810006 0.003561 41
16 2595, 2604: DTE 8470 58.981215 0.000873 41
17 2598, 2608: DTE 8486 59.115044 0.001043 41
18 2601, 2612: DTE 8506 59.271568 0.001040 41
19 2602, 5899: DCE 8512 59.316158 0.040000 88 5b 20 00 00 00 00 08 00 00: Pan Right, Pan Speed      1,
20 2618, 2630: DTE 8570 59.681575 0.001090 41

```

0.8 ProcDCE

PROCDC.E.L: This filter builds up commands starting with the “first byte”. First bytes always have the most significant bit set.

1. This filter is written in Flex.
2. This filter is suitable for use with Vicon’s Protocols only.
3. This filter requires preprocessing by MAKESECS.
4. This filter is sensitive to having DCE (for data coming from the Keyboard) and DTE (for data coming from the Dome) having data coming from the Headend/Keyboard or the Dome/Camera.
5. Batch file Hh.bat (Section 0.2, page 1) shows use of this command.
6. **Listing of: hh03.dce a typical input file.**

1	1,	1: DCE	1	0.000000	0.000000 88
2	1,	2: DCE	2	0.001039	0.001039 0b
3	2,	3: DCE	4	0.019792	0.001039 88
4	2,	4: DCE	5	0.020833	0.001039 0b
5	3,	5: DCE	7	0.032291	0.008431 84
6	3,	6: DCE	8	0.033327	0.001036 06
7	3,	7: DCE	9	0.060317	0.026990 88
8	3,	8: DCE	10	0.061354	0.001037 0b
9	4,	9: DCE	12	0.076461	0.001037 87
10	4,	10: DCE	13	0.077501	0.001037 0f
11	4,	11: DCE	14	0.109694	0.001037 88
12	4,	12: DCE	15	0.110731	0.001037 0b
13	5,	13: DCE	17	0.124899	0.010960 89
14	5,	14: DCE	18	0.125938	0.001039 01
15	5,	15: DCE	19	0.157815	0.031877 89
16	5,	16: DCE	20	0.158855	0.001040 06
17	5,	17: DCE	21	0.190426	0.031571 88
18	5,	18: DCE	22	0.191465	0.001039 0b
19	6,	19: DCE	24	0.205736	0.001039 8b
20	6,	20: DCE	25	0.206778	0.001039 03

7. **Listing of: hh03.pc a typical output file.**

1					
2	1,	1: DCE	1	0.000000	0.000000 88 0b
3	2,	3: DCE	4	0.019792	0.001039 88 0b
4	3,	5: DCE	7	0.032291	0.008431 84 06
5	3,	7: DCE	9	0.060317	0.026990 88 0b
6	4,	9: DCE	12	0.076461	0.001037 87 0f
7	4,	11: DCE	14	0.109694	0.001037 88 0b
8	5,	13: DCE	17	0.124899	0.010960 89 01
9	5,	15: DCE	19	0.157815	0.031877 89 06
10	5,	17: DCE	21	0.190426	0.031571 88 0b
11	6,	19: DCE	24	0.205736	0.001039 8b 03
12	6,	21: DCE	26	0.237195	0.001039 8b 05
13	6,	23: DCE	28	0.269903	0.001039 88 0b
14	7,	25: DCE	31	0.285111	0.011002 8d 07
15	7,	27: DCE	33	0.310111	0.023957 88 0b
16	8,	29: DCE	36	0.324076	0.001042 8e 00
17	8,	31: DCE	38	0.361368	0.001042 88 0b
18	9,	33: DCE	41	0.381263	0.015716 88 0b
19	10,	35: DCE	44	0.399285	0.001042 88 0b
20	11,	37: DCE	47	0.417409	0.013952 88 0b

0.9 Other files

1. PLOT.GP: This is the control file for GNUPLOT when it is generating plot data.

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