File Format Specification

CPT

2006-06-27

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1 Change history

Revision	Date	Author	Description
1.0	27.6.2007	Calle Laakkonen	First document.

2 Background

CPT is an ASCII data format for regional time-activity curves, generated by CTI Imagetool and Vinci.

3 Format

The data is formatted in a table, the first and second line being headers. The first line contains column titles, and the second line defines unit types for some columns.

The following columns are present:

Name	Unit	Offset	Type
Frame		0	Integer
Cut		6	Integer
ROI ID		12	Integer
ROI Avg		26	Float (E notation)
#pixels	(screen)	37	Integer
ROI Total		48	Float (E notation)
%stdev		60	Float (single decimal)
Offset	(sec)	70	Float (single decimal)
Duration	(sec)	79	Float (single decimal)
ROI Surf.	mmxmm	90	Float (E notation)
ROI Vol.	mmxmmxmm	104	Float (E notation)

Blank lines and lines beginning with '#' are ignored.

Frame, cut, ROI ID and #pixels are integer values. ROI Avg, ROI Total, ROI Surf. and ROI Vol. are floating point values, represented in scientific notation (E notation.) %Stdev, offset and duration are floating point values, represented with the accuracy of one decimal.

4 Example

```
# TAC analysis v 1.60, Vinci 2.35.1, January 11 2007
# created at Feb 05 2007 16:17:21
# ROI initially defined on file: "G:\WORK\TRIMFAT\FDG\cs10\cs10_fdg1_rsl.v"
# associated project file: "G:\WORK\TRIMFAT\FDG\cs10\cs10_fdg1_rsl_MPV2_TAC.cpt.vpx"
# project signature: "2909DF197BBA0A251FAEDB57CD4EB908"
# Display Size: 256
```

```
# Sampling Size: 256
# Interpolation: Trilinear
# Zoom Method: None
# ROI Width (+/- Planes): 1
# Interpolation: Trilinear
# Units: undefined

# Using ROI "mpv2s" (TRANSAXIAL), size: 630 pixels (one slice)
# ROI surface[mm²]: 630.0, ROI volume[mm³]: 6180.3

Frame Cut   ROI ID        ROI Avg    #pixels    ROI Total   %Stdev    Offset   Duration   ROI Surf.
ROI Vol.
                                     (screen)                         (sec)     (sec)      mmxmm
mmxmmxmm
1     23    1            0.0000e+000  1890     0.0000e+000    0.0        0.0      15.0   6.3000e+002
6.1803e+003
2     23    1            3.4226e+002  1890     6.4687e+005   62.9       15.0      15.0   6.3000e+002
6.1803e+003
3     23    1            1.9320e+003  1890     3.6515e+006   44.1       30.0      15.0   6.3000e+002
6.1803e+003
4     23    1            2.6468e+003  1890     5.0025e+006   36.3       45.0      15.0   6.3000e+002
6.1803e+003
5     23    1            2.5949e+003  1890     4.9043e+006   34.0       60.0      15.0   6.3000e+002
6.1803e+003
6     23    1            2.9045e+003  1890     5.4895e+006   43.9       75.0      15.0   6.3000e+002
6.1803e+003
7     23    1            2.8971e+003  1890     5.4755e+006   35.3       90.0      15.0   6.3000e+002
6.1803e+003
8     23    1            2.8801e+003  1890     5.4434e+006   34.2      105.0      15.0   6.3000e+002
6.1803e+003
9     23    1            2.3410e+003  1890     4.4246e+006   33.8      120.0      30.0   6.3000e+002
6.1803e+003
10    23    1            2.3672e+003  1890     4.4740e+006   27.6      150.0      30.0   6.3000e+002
6.1803e+003
11    23    1            2.4174e+003  1890     4.5689e+006   18.8      180.0     120.0   6.3000e+002
6.1803e+003
12    23    1            2.0659e+003  1890     3.9046e+006   12.5      300.0     120.0   6.3000e+002
6.1803e+003
13    23    1            2.2128e+003  1890     4.1822e+006   13.5      420.0     180.0   6.3000e+002
6.1803e+003
14    23    1            2.1536e+003  1890     4.0703e+006   15.8      600.0     300.0   6.3000e+002
6.1803e+003
15    23    1            2.1624e+003  1890     4.0870e+006   14.0      900.0     300.0   6.3000e+002
6.1803e+003
16    23    1            2.0901e+003  1890     3.9503e+006   13.0     1200.0     300.0   6.3000e+002
6.1803e+003
17    23    1            1.9544e+003  1890     3.6938e+006   14.9     1500.0     300.0   6.3000e+002
6.1803e+003
18    23    1            1.8417e+003  1890     3.4808e+006   14.0     1800.0     300.0   6.3000e+002
6.1803e+003
19    23    1            1.9173e+003  1890     3.6237e+006   18.0     2100.0     300.0   6.3000e+002
6.1803e+003
20    23    1            1.9134e+003  1890     3.6163e+006   13.4     2400.0     300.0   6.3000e+002
6.1803e+003
21    23    1            1.7566e+003  1890     3.3199e+006   14.9     2700.0     300.0   6.3000e+002
6.1803e+003

# 21 Frames(s) analyzed.
```

Data and header lines have wrapped in the example due to limited paper width.