

**CPU Time dos Módulos do RPSAS 20km**  
**RPSAS - EtaWS (pre, forecast e pos) - FGUESS**

**ANALISE:**

2007070112/ana.1183400192.77488.out

[MWTIME]	counts	period	NET	m:s	% SCOPE	m:s	%
.zeit.	1s 0/ 5				0.0	00:00	0.0+ 6832.0
113:52 100.0+							
ana	1	1954.9	1954.9	32:35	28.6%	6832.0	113:52 100.0%
dyn_get	1	12.1	12.1	00:12	0.2%	12.1	00:12 0.2%
ods_get	1	3.2	3.2	00:03	0.0%	3.2	00:03 0.0%
Observer	1	7.2	7.2	00:07	0.1%	1966.5	32:46 28.8%
simulator	2	976.1	1952.3	32:32	28.6%	1952.3	32:32 28.6%
tovs_prep	1	0.0	0.0	00:00	0.0%	0.0	00:00 0.0%
surf_tobot	1	0.1	0.1	00:00	0.0%	0.1	00:00 0.0%
DupObs	1	3.1	3.1	00:03	0.0%	3.1	00:03 0.0%
SQC	1	0.7	0.7	00:01	0.0%	3.7	00:04 0.1%
Get_ErrVar_	1	0.1	0.1	00:00	0.0%	0.9	00:01 0.0%
PSAS_Sigs	1	0.8	0.8	00:01	0.0%	0.8	00:01 0.0%
Backg_Check_	1	0.0	0.0	00:00	0.0%	0.0	00:00 0.0%
Buddy_Check_	1	1.4	1.4	00:01	0.0%	1.4	00:01 0.0%
Pairw_Check_	1	0.1	0.1	00:00	0.0%	0.1	00:00 0.0%
Profl_Check_	1	0.7	0.7	00:01	0.0%	0.7	00:01 0.0%
Analyzer	1	2063.2	2063.2	34:23	30.2%	2891.4	48:11 42.3%
getAI	1	0.0	0.0	00:00	0.0%	802.5	13:22 11.7%
I/O ovrhd	1	802.5	802.5	13:22	11.7%	802.5	13:22 11.7%
Ana2Dyn	1	25.8	25.8	00:26	0.4%	25.8	00:26 0.4%
ods_put	1	1.0	1.0	00:01	0.0%	1.0	00:01 0.0%
dyn_put	1	2.8	2.8	00:03	0.0%	2.8	00:03 0.0%

2007070112/ana.1183400192.77488.err

\*\*\*\*\* Program Information \*\*\*\*\*

```

Real Time (sec)      : 6831.997222
User Time (sec)     : 5933.740929
Sys Time (sec)      : 14.920605
Vector Time (sec)   : 722.977668
Inst. Count         : 1379536570301.
V. Inst. Count      : 20089816736.
V. Element Count    : 4910093572117.
FLOP Count          : 1858636276303.
MOPS                : 1056.591516
MFLOPS              : 313.231787
VLEN                : 244.407086
V. Op. Ratio (%)    : 78.316644
Memory Size (MB)    : 1056.031250
MIPS                : 232.490192
I-Cache (sec)       : 1.838024
O-Cache (sec)       : 407.713426
Bank (sec)          : 0.100559

Start Time (date)   : 2007/07/02 18:16:38
End Time (date)     : 2007/07/02 20:10:30

```

**FCST: 12horas de previsão**

2007062600/etap20\_fct.1183039543.58082.out

Routine	Time (s)	%
MPP	0.0	0.0
INIT	0.2	0.0
GOSS	0.0	0.0
RADTN	95.9	5.6
CHKOUT	3.5	0.2
DIVHOA	217.7	12.7
DPTEDT	11.1	0.6
VTADV	41.0	2.4
PDNEW	0.0	0.0
BOCOH	1.0	0.1
PGCOR	188.9	11.0
DDAMP	15.6	0.9
BOCOV	0.5	0.0
RDTEMP	3.2	0.2
HDIFF	60.3	3.5
HZADV	96.4	5.6
HZADV2	52.5	3.1
VADZ	24.4	1.4
HADZ	0.4	0.0
EPS	2.7	0.2
TURBL	495.3	28.8
CUCNVC	103.4	6.0
GSMDRVR	142.7	8.3
CLTEND	2.5	0.1
EXCH	160.3	9.3
-----		
TOTAL	1719.7	seconds

**BCTEND:**

2007062712/etap20\_bctend.1183142479.64818.err

```
***** Program Information *****
Real Time (sec)      :      0.673913
User Time (sec)     :      0.066551
Sys Time (sec)      :      0.033648
Vector Time (sec)   :      0.051645
Inst. Count         :      8190645.
V. Inst. Count      :      677922.
V. Element Count    :      172751212.
FLOP Count          :      9054158.
MOPS                 :      2708.662780
MFLOPS              :      136.048627
VLEN                :      254.824614
V. Op. Ratio (%)    :      95.832376
Memory Size (MB)    :      592.031250
MIPS                 :      123.073399
I-Cache (sec)       :      0.001110
O-Cache (sec)       :      0.002902
Bank (sec)          :      0.000000
```

Start Time (date) : 2007/06/29 18:41:26  
End Time (date) : 2007/06/29 18:41:27

**GESPREP :**

2007040112/etap20\_gesprep.1180375211.19108.err

```
***** Program Information *****
Real Time (sec)      : 10.138513
User Time (sec)     : 8.519780
Sys Time (sec)      : 0.111320
Vector Time (sec)   : 6.236336
Inst. Count         : 1683413145.
V. Inst. Count      : 254476222.
V. Element Count    : 19535688537.
FLOP Count          : 5713894590.
MOPS                : 2460.700290
MFLOPS              : 670.662211
VLEN                : 76.768228
V. Op. Ratio (%)    : 93.184057
Memory Size (MB)    : 736.031250
MIPS                : 197.588801
I-Cache (sec)       : 0.021252
O-Cache (sec)       : 0.440117
Bank (sec)          : 0.020844
```

Start Time (date) : 2007/05/28 18:00:15  
End Time (date) : 2007/05/28 18:00:25

**GRDETA: stderr:0.0**

Tempo/grdeta\_time.out

```
***** Program Information *****
Real Time (sec)      : 22.560903
User Time (sec)     : 9.104869
Sys Time (sec)      : 0.441295
Vector Time (sec)   : 1.364499
Inst. Count         : 1791098545.
V. Inst. Count      : 30481507.
V. Element Count    : 7287207003.
FLOP Count          : 1143478172.
MOPS                : 993.734715
MFLOPS              : 125.589750
VLEN                : 239.069774
V. Op. Ratio (%)    : 80.540989
Memory Size (MB)    : 3024.031250
MIPS                : 196.718768
I-Cache (sec)       : 0.076815
O-Cache (sec)       : 0.547170
Bank (sec)          : 0.015552
```

Start Time (date) : 2007/07/18 17:18:29  
End Time (date) : 2007/07/18 17:18:52

**MKBND:**

2007040112/etap20\_mkbnd.1180461469.24569.err

```
***** Program Information *****
Real Time (sec)      :      23.090259
User Time (sec)     :      21.309131
Sys Time (sec)      :       0.189018
Vector Time (sec)   :      18.580495
Inst. Count         :    4285859397.
V. Inst. Count      :    819456981.
V. Element Count    :    65324545024.
FLOP Count          :    18803735022.
MOPS                :    3228.238117
MFLOPS              :    882.426197
VLEN                :    79.716869
V. Op. Ratio (%)    :    94.960961
Memory Size (MB)    :    1152.031250
MIPS                :    201.127840
I-Cache (sec)       :    0.299889
O-Cache (sec)       :    0.353775
Bank (sec)          :    0.012540

Start Time (date)   : 2007/05/29 17:57:54
End Time (date)     : 2007/05/29 17:58:17
```

**QUILT: stderr.0:0**

Tempo/quilt\_time.out

```
***** Program Information *****
Real Time (sec)      :      25.094974
User Time (sec)     :      17.734168
Sys Time (sec)      :       0.087495
Vector Time (sec)   :      14.227325
Inst. Count         :    953655371.
V. Inst. Count      :    128795239.
V. Element Count    :    2330407781.
FLOP Count          :         1326.
MOPS                :    177.920267
MFLOPS              :     0.000075
VLEN                :    18.093897
V. Op. Ratio (%)    :    73.857683
Memory Size (MB)    :    1040.031250
MIPS                :    53.775027
I-Cache (sec)       :    0.002419
O-Cache (sec)       :    0.003822
Bank (sec)          :    0.000217

Start Time (date)   : 2007/07/12 23:31:51
End Time (date)     : 2007/07/12 23:32:16
```

**ETAPOS:**

2007040112/etap20\_post.1181580115.80112.err

```
***** Program Information *****
Real Time (sec)      :       5.011885
User Time (sec)     :       0.873678
Sys Time (sec)      :       0.099860
```

Vector Time (sec) : 0.597910  
Inst. Count : 111902793.  
V. Inst. Count : 17377496.  
V. Element Count : 3678237032.  
FLOP Count : 622866702.  
MOPS : 4318.250790  
MFLOPS : 712.924482  
VLEN : 211.666688  
V. Op. Ratio (%) : 97.494533  
Memory Size (MB) : 1632.031250  
MIPS : 128.082366  
I-Cache (sec) : 0.015082  
O-Cache (sec) : 0.013653  
Bank (sec) : 0.008193

Start Time (date) : 2007/06/11 16:51:09  
End Time (date) : 2007/06/11 16:51:14

**FGETA:**

2007040112/setfgeta020km38L.26\_14:47.err

\*\*\*\*\* Program Information \*\*\*\*\*

Real Time (sec) : 28.900868  
User Time (sec) : 1.842207  
Sys Time (sec) : 9.577119  
Vector Time (sec) : 0.166997  
Inst. Count : 483328341.  
V. Inst. Count : 5524077.  
V. Element Count : 919330543.  
FLOP Count : 367356924.  
MOPS : 758.402859  
MFLOPS : 199.411352  
VLEN : 166.422471  
V. Op. Ratio (%) : 65.801134  
Memory Size (MB) : 512.031250  
MIPS : 262.363799  
I-Cache (sec) : 0.161422  
O-Cache (sec) : 0.176213  
Bank (sec) : 0.009176

Unformatted I/O trans. size (sum) (MByte)

Total trans. size : 145.065349  
NFS : 145.065349

Unformatted I/O trans. size (ave) (MByte)

Total trans. size : 0.252288  
NFS : 0.252288

Unformatted I/O trans. rate (MByte/sec)

Total trans. rate : 30.262379  
NFS : 30.262379

I/O Time

Real Time (sec) : 4.993245  
User Time (sec) : 0.054174  
Sys Time (sec) : 1.407113

Start Time (date) : 2007/06/26 14:47:57  
End Time (date) : 2007/06/26 14:48:26