

Skywolf's P3D Optimization/Reduce OOMs Guide

Version 0.5 (March 30, 2013)

Disclaimer: This is not a Final Document

Contact me on the AVSIM Forums: Skywolf or Twitter: @anishsikri

This is a living document, and will get updated as the settings listed below are confirmed/improved by other P3D users. Please DO NOT COPY OR HOST THIS DOCUMENT ELSEWHERE, unless stated by the Author

Acknowledgements

I would like to thank everyone who was involved in creating the FSX Guide as posted in Avsim.com forums. That document was inspiration for me to create this document.

Personal Thanks goes to the companies/individuals whose products I have so far used in FSX and P3D.

Lockheed Martin, Orbx, PMDG, Aerosoft, Pete Dowson's FSUIPC, Quality Wings, Carenado, Feelthere's ERJ, OpusFSX, A2A Simulations, Maarten Boelens SimLauncher, REX, FSDT, Flightsim Estonia, Microsoft, Mark Russinovich's Process Explorer

I also would like to thank everyone who has helped me in the forums on myriad number of questions/issues that I have posted.

My Goal

I wanted to figure out on how to improve the performance of P3D on my computer (with triple screen). P3D by default works very well, but if I added complex sceneries and aircrafts – I would be very close to hitting the P3D's 4GB Virtual Address Space (VAS), and it would yield to P3D's out of memory crash (OOMs).

I knew there has to be a way to achieve far better performance as P3D is made from refined FSX code.

My performance gains have to come from the currently owned hardware.

My Setup

My Hardware

Cpu – i5-750 (OC to 4.01 Ghz)

Ram – 8GB+ Ram DDR-1866 (OC to 1910)

SSD – 256 Sata III (6 G/bits) – I have a Sata 3 addon card for my msi p55a-fuzion 1156 motherboard.

Video – One XFX AMD 6970 Radeon 2GB Card (not overclocked).

Joystick – Thrustmaster Hotas-X

Monitors – 3x 1920x1200 Resolution Monitors / Eyefinity Resolution 5780x1200 with 6080x1200 (Bezel Corrected Res)

My Software

OS – **Windows 8 Pro 64 Bit**

FlightSim – Prepar3d 1.4 Windowed Mode Only (Clean System, No FSX installed)

FlightSim Utilities – FSUIPC, FSX to Prepar3d Migration Tool

AI Traffic – My Traffic 5.4B P3D

Weather Generation – OpusFSX for weather

Textures – REX Essentials with Overdrive Upgrade

Sceneries – FSDT KJFK, Orbx – PNW, KORS Airport, All Orbx Freeware, New Zealand North and South Island

Aircrafts – Carenado HD Series (I bought so many during 2012 Christmas sale), Aerosoft Airbus X, Quality Wings 146.

Misc – FS Flying School Pro 2013 P3D, SimLauncher 8.4, A2A Accusim v 2.0

P3D VAS Memory Jump Discovery

I started to observe on how each specific change in P3D configuration affects if 4 GB Virtual Address Space.

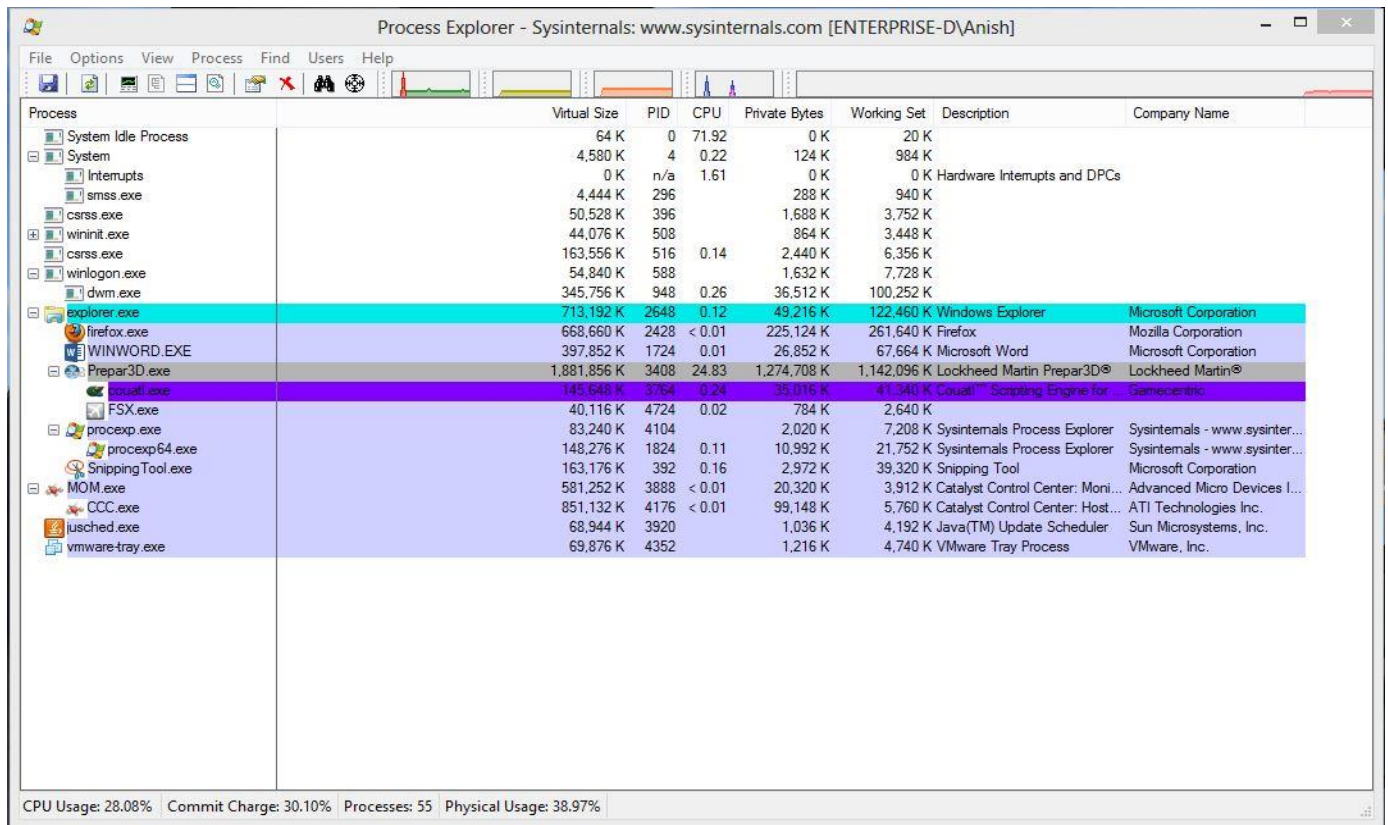
Basic P3D Config (P3D is going to re-create a brand new one)

FTX Central: Set to P3D

AI Traffic: Disabled in Scenery.cfg

Windows Desktop: Eyefinity Mode

VAS Usage: 1,881,856 K (1.88 Gigs of VAS)

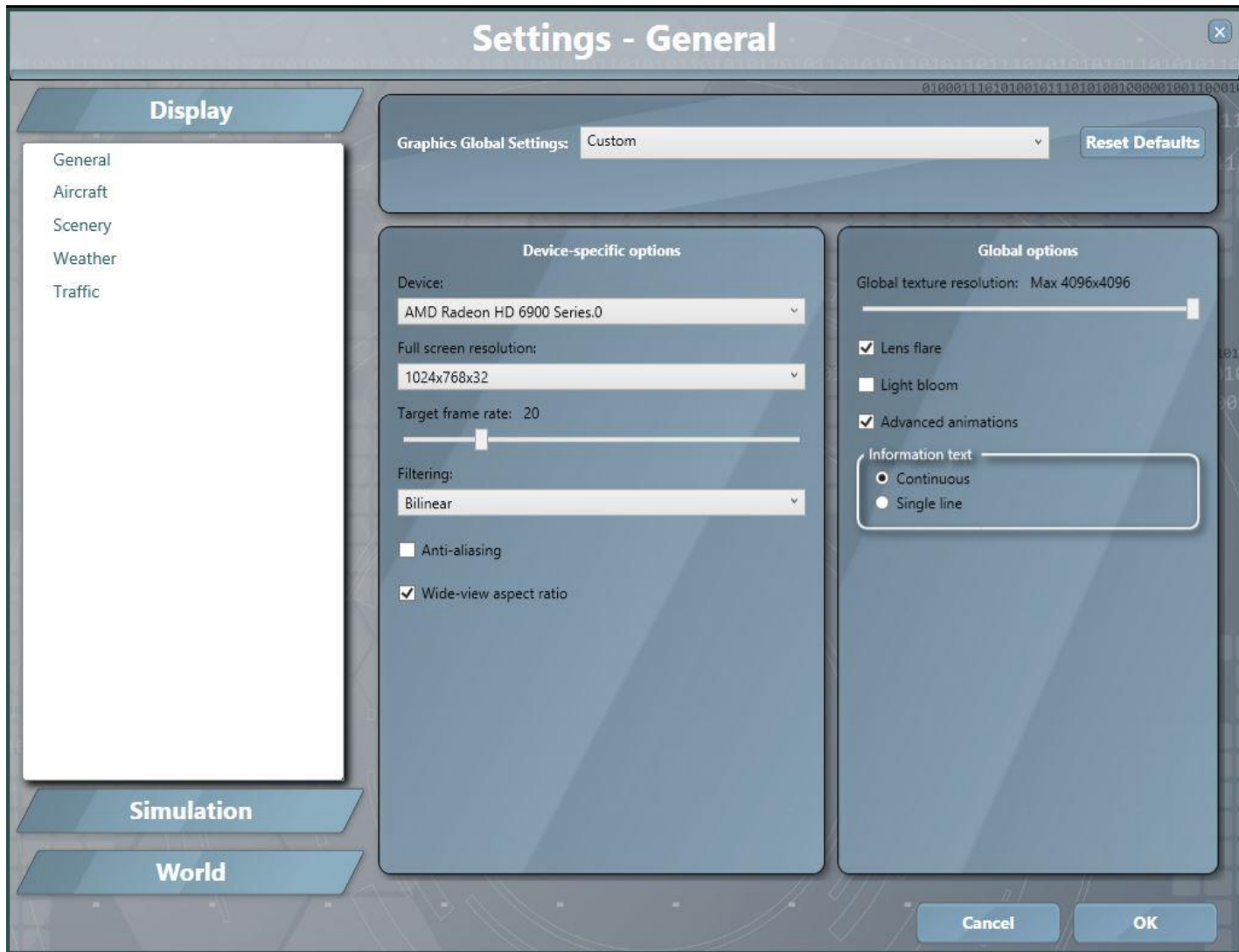


Process	Virtual Size	PID	CPU	Private Bytes	Working Set	Description	Company Name
System Idle Process	64 K	0	71.92	0 K	20 K		
System	4,580 K	4	0.22	124 K	984 K		
Interrupts	0 K	n/a	1.61	0 K	0 K	Hardware Interrupts and DPCs	
smss.exe	4,444 K	296		288 K	940 K		
csrss.exe	50,528 K	396		1,688 K	3,752 K		
wininit.exe	44,076 K	508		864 K	3,448 K		
csrss.exe	163,556 K	516	0.14	2,440 K	6,356 K		
winlogon.exe	54,840 K	588		1,632 K	7,728 K		
dwm.exe	345,756 K	948	0.26	36,512 K	100,252 K		
explorer.exe	713,192 K	2648	0.12	49,216 K	122,460 K	Windows Explorer	Microsoft Corporation
firefox.exe	668,660 K	2428	< 0.01	225,124 K	261,640 K	Firefox	Mozilla Corporation
WINWORD.EXE	397,852 K	1724	0.01	26,852 K	67,664 K	Microsoft Word	Microsoft Corporation
Prepar3D.exe	1,881,856 K	3408	24.83	1,274,708 K	1,142,096 K	Lockheed Martin Prepar3D®	Lockheed Martin®
casual.exe	145,648 K	3764	0.24	35,016 K	41,340 K	Casual™ Scripting Engine for	Gamecentric
FSX.exe	40,116 K	4724	0.02	784 K	2,640 K		
proccxp.exe	83,240 K	4104		2,020 K	7,208 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
proccxp64.exe	148,276 K	1824	0.11	10,992 K	21,752 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
SnippingTool.exe	163,176 K	392	0.16	2,972 K	39,320 K	Snipping Tool	Microsoft Corporation
MOM.exe	581,252 K	3888	< 0.01	20,320 K	3,912 K	Catalyst Control Center: Moni...	Advanced Micro Devices I...
CCC.exe	851,132 K	4176	< 0.01	99,148 K	5,760 K	Catalyst Control Center: Host...	ATI Technologies Inc.
usched.exe	68,944 K	3920		1,036 K	4,192 K	Java(TM) Update Scheduler	Sun Microsystems, Inc.
vmware-tray.exe	69,876 K	4352		1,216 K	4,740 K	VMware Tray Process	VMware, Inc.

CPU Usage: 28.08% | Commit Charge: 30.10% | Processes: 55 | Physical Usage: 38.97%

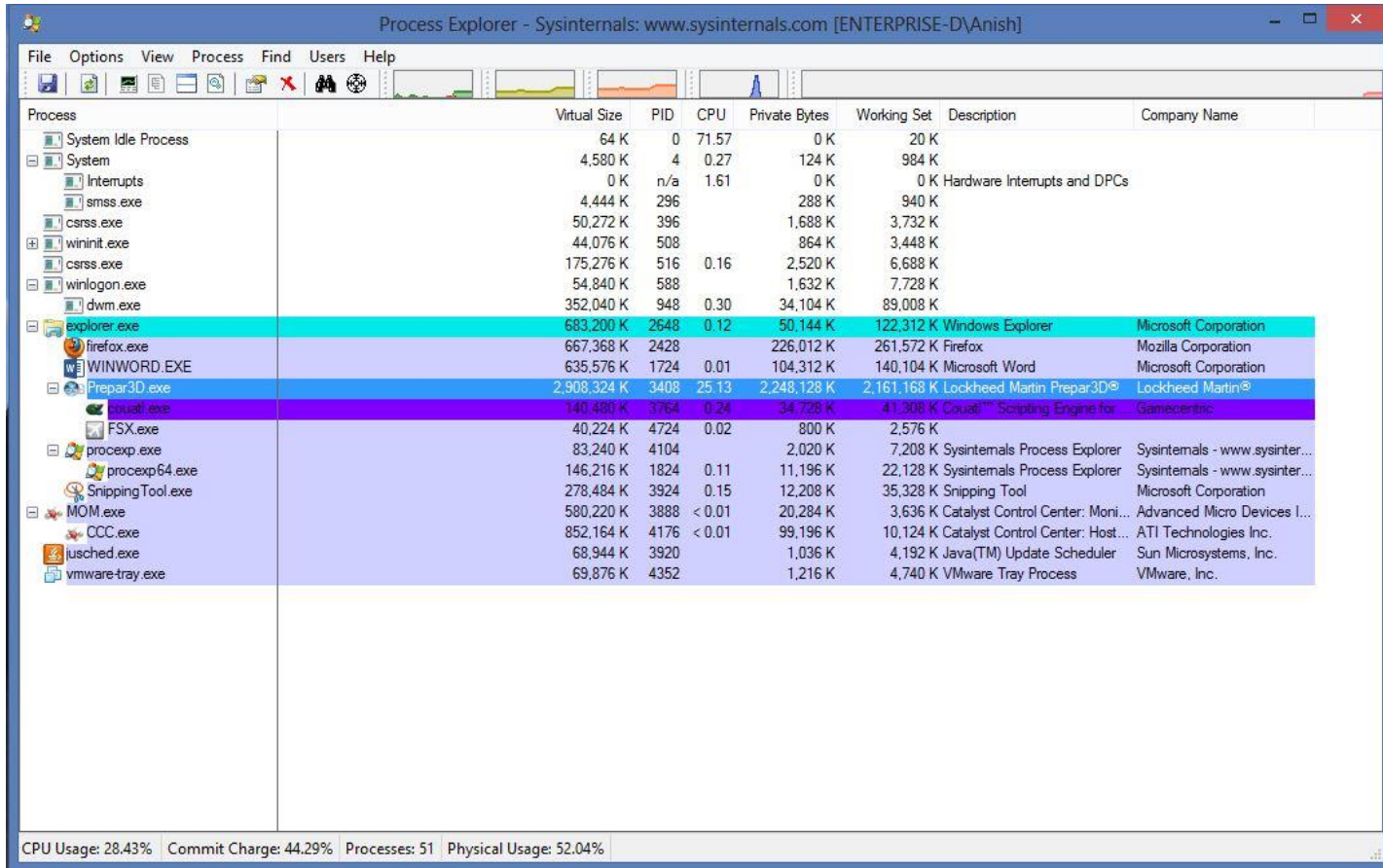
All Default P3D Setting are at the end of the document for reference

Now let's say that I want to increase my Global Texture Resolution to 4096x4096 (Just like in FSX Guide for being able to load those HD textures)



Now Observe the VAS Usage

VAS USAGE with one change to 4096x4096 Global Texture Resolution



Process	Virtual Size	PID	CPU	Private Bytes	Working Set	Description	Company Name
System Idle Process	64 K	0	71.57	0 K	20 K		
System	4,580 K	4	0.27	124 K	984 K		
Interrupts	0 K	n/a	1.61	0 K	0 K	0 K Hardware Interrupts and DPCs	
smss.exe	4,444 K	296		288 K	940 K		
csrss.exe	50,272 K	396		1,688 K	3,732 K		
wininit.exe	44,076 K	508		864 K	3,448 K		
csrss.exe	175,276 K	516	0.16	2,520 K	6,688 K		
winlogon.exe	54,840 K	588		1,632 K	7,728 K		
dwm.exe	352,040 K	948	0.30	34,104 K	89,008 K		
explorer.exe	683,200 K	2648	0.12	50,144 K	122,312 K	Windows Explorer	Microsoft Corporation
firefox.exe	667,368 K	2428		226,012 K	261,572 K	Firefox	Mozilla Corporation
WINWORD.EXE	635,576 K	1724	0.01	104,312 K	140,104 K	Microsoft Word	Microsoft Corporation
Prepar3D.exe	2,908,324 K	3408	25.13	2,248,128 K	2,161,168 K	Lockheed Martin Prepar3D®	Lockheed Martin®
fsx.exe	140,480 K	3764	0.24	34,720 K	41,308 K	Orbital™ Soaring Engine for	Gamecentric
FSX.exe	40,224 K	4724	0.02	800 K	2,576 K		
procexp.exe	83,240 K	4104		2,020 K	7,208 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
procexp64.exe	146,216 K	1824	0.11	11,196 K	22,128 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
SnippingTool.exe	278,484 K	3924	0.15	12,208 K	35,328 K	Snipping Tool	Microsoft Corporation
MOM.exe	580,220 K	3888	< 0.01	20,284 K	3,636 K	Catalyst Control Center: Moni...	Advanced Micro Devices I...
CCC.exe	852,164 K	4176	< 0.01	99,196 K	10,124 K	Catalyst Control Center: Host...	ATI Technologies Inc.
usched.exe	68,944 K	3920		1,036 K	4,192 K	Java(TM) Update Scheduler	Sun Microsystems, Inc.
vmware-tray.exe	69,876 K	4352		1,216 K	4,740 K	VMware Tray Process	VMware, Inc.

CPU Usage: 28.43% Commit Charge: 44.29% Processes: 51 Physical Usage: 52.04%

VAS Jumps to 2,908,324 K (2.9G of VAS) in one shot only. Nothing else is changed. P3D is on the default flight, default plane: Mooney Bravo, and at its default location on the runway.

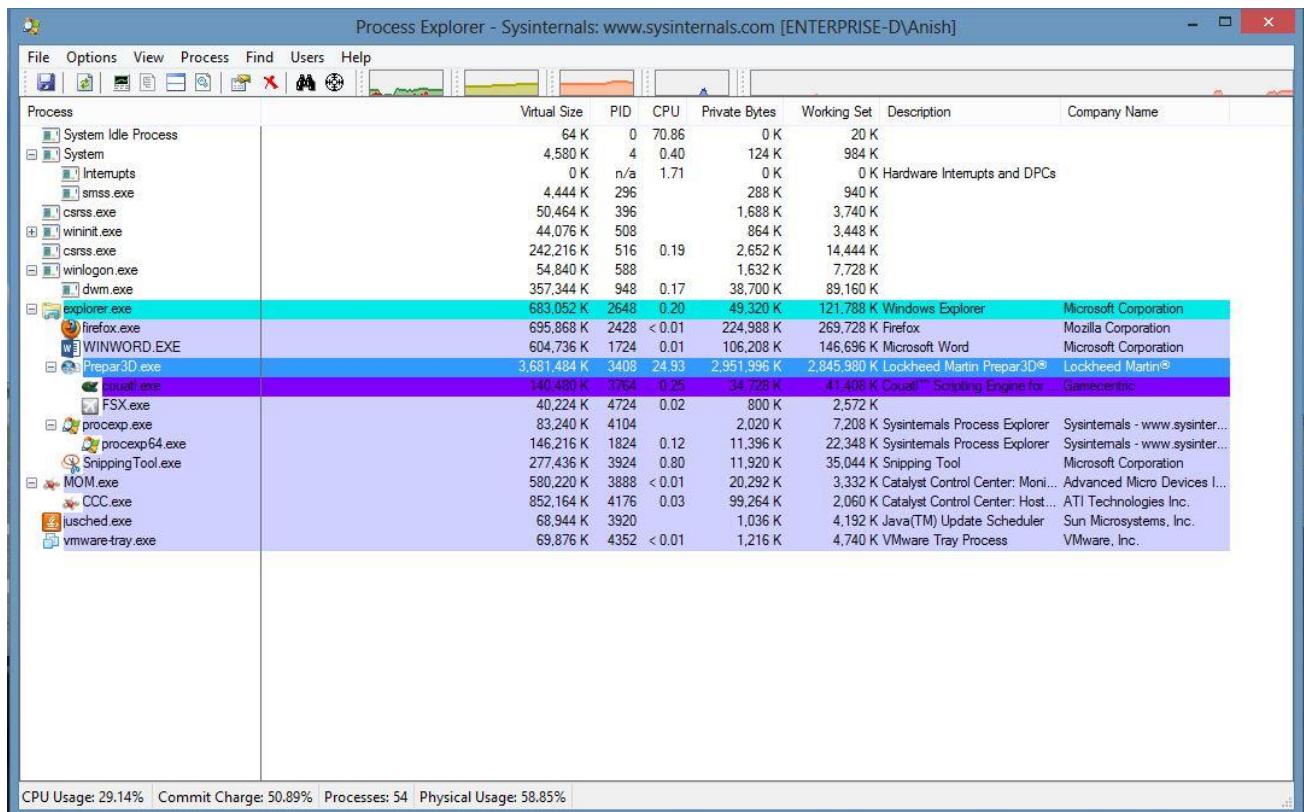
VAS Jump is 1,026,468 K (1 Gig of VAS)!!!!!!!

Massive VAS Spike and Solution

This is a huge increase, and leaves very little room with total VAS limitation at 4GB to load up complex sceneries, aircrafts, autogen, weather, AI, etc.

With 4096 Textures Setting, we are left with 1 GB of free VAS approx. till OOMs hit P3D.

Let's see what happens when I load the awesome Quality Wings 146 with default P3D Settings at the Default Flight with everything else as is



Process	Virtual Size	PID	CPU	Private Bytes	Working Set	Description	Company Name
System Idle Process	64 K	0	70.86	0 K	20 K		
System	4,580 K	4	0.40	124 K	984 K		
Interrupts	0 K	n/a	1.71	0 K	0 K	0 K Hardware Interrupts and DPCs	
smss.exe	4,444 K	296		288 K	940 K		
csrss.exe	50,464 K	396		1,688 K	3,740 K		
wininit.exe	44,076 K	508		864 K	3,448 K		
csrss.exe	242,216 K	516	0.19	2,652 K	14,444 K		
winlogon.exe	54,840 K	588		1,632 K	7,728 K		
dwm.exe	357,344 K	948	0.17	38,700 K	89,160 K		
explorer.exe	683,052 K	2648	0.20	49,320 K	121,788 K	Windows Explorer	Microsoft Corporation
firefox.exe	695,868 K	2428	< 0.01	224,988 K	269,728 K	Firefox	Mozilla Corporation
WINWORD.EXE	604,736 K	1724	0.01	106,208 K	146,696 K	Microsoft Word	Microsoft Corporation
Prepar3D.exe	3,681,484 K	3408	24.93	2,951,996 K	2,845,980 K	Lockheed Martin Prepar3D®	Lockheed Martin®
lua.exe	140,480 K	3764	0.25	34,728 K	41,408 K	Cosmos™ Scripting Engine for	Gamecentric
FSX.exe	40,224 K	4724	0.02	800 K	2,572 K		
procexp.exe	83,240 K	4104		2,020 K	7,208 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
procexp64.exe	146,216 K	1824	0.12	11,396 K	22,348 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
SnippingTool.exe	277,436 K	3924	0.80	11,920 K	35,044 K	Snipping Tool	Microsoft Corporation
MOM.exe	580,220 K	3888	< 0.01	20,292 K	3,332 K	Catalyst Control Center: Moni...	Advanced Micro Devices I...
CCC.exe	852,164 K	4176	0.03	99,264 K	2,060 K	Catalyst Control Center: Host...	ATI Technologies Inc.
lschcd.exe	68,944 K	3920		1,036 K	4,192 K	Java(TM) Update Scheduler	Sun Microsystems, Inc.
vmware-tray.exe	69,876 K	4352	< 0.01	1,216 K	4,740 K	VMware Tray Process	VMware, Inc.

CPU Usage: 29.14% Commit Charge: 50.89% Processes: 54 Physical Usage: 58.85%

VAS = 3,681,434 K (3.7 Gigs of VAS) – Good luck loading anything now as now you have less than 400MB of free VAS till OOMs are detected. I would say 300MB and P3D will crash, 400MB is pushing it.

Game Changing Solution to this vexing OOM Issue

Set global Textures to 2048 and see your VAS Usage

Process	Virtual Size	PID	CPU	Private Bytes	Working Set	Description	Company Name
System Idle Process	64 K	0	1.29	0 K	20 K		
System	4,580 K	4	0.49	124 K	988 K		
Interrupts	0 K	n/a	1.39	0 K	0 K	Hardware Interrupts and DPCs	
smss.exe	4,444 K	296		288 K	940 K		
csrss.exe	50,464 K	396		1,688 K	3,744 K		
wininit.exe	44,076 K	508		864 K	3,448 K		
csrss.exe	175,284 K	516	0.19	2,512 K	13,168 K		
winlogon.exe	54,840 K	588		1,632 K	7,728 K		
dwm.exe	352,744 K	948	0.53	34,496 K	98,756 K		
explorer.exe	712,536 K	2648	0.45	80,520 K	156,424 K	Windows Explorer	Microsoft Corporation
firefox.exe	697,160 K	2428	0.01	226,060 K	270,756 K	Firefox	Mozilla Corporation
WINWORD.EXE	624,260 K	1724	0.40	115,944 K	151,032 K	Microsoft Word	Microsoft Corporation
proccxp.exe	83,240 K	4104		2,020 K	7,208 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
proccxp64.exe	152,040 K	1824	0.13	11,580 K	22,684 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
SnippingTool.exe	279,444 K	3924	0.26	12,996 K	34,760 K	Snipping Tool	Microsoft Corporation
Prepar3D.exe	2,213,112 K	2984	94.17	1,595,776 K	1,509,612 K	Lockheed Martin Prepar3D®	Lockheed Martin®
jsuati.exe	145,636 K	2332	0.27	34,432 K	40,712 K	Cloud™ Scripting Engine for	Gamesonic
FSX.exe	40,116 K	1164	0.02	788 K	2,576 K		
MOM.exe	581,252 K	3888	< 0.01	20,328 K	1,508 K	Catalyst Control Center: Moni...	Advanced Micro Devices I...
CCC.exe	852,164 K	4176	0.02	99,028 K	12,048 K	Catalyst Control Center: Host...	ATI Technologies Inc.
jusched.exe	68,944 K	3920		1,036 K	4,192 K	Java(TM) Update Scheduler	Sun Microsystems, Inc.
vmware-tray.exe	69,876 K	4352	< 0.01	1,216 K	4,772 K	VMware Tray Process	VMware, Inc.

CPU Usage: 98.71% Commit Charge: 34.02% Processes: 54 Physical Usage: 42.88%

VAS Jumped to only 2,213,112K (from 1.88K of default VAS approx. It only took 330MB!!! And you have approx. 1.7 to 1.8 Gigs of VAS free – Let’s just say 2 Gigs free rounded

Complex Aircraft Load Only: QW 146 with 2048 Texture Setting

Process Explorer - Sysinternals: www.sysinternals.com [ENTERPRISE-D\Anish]

Process	Virtual Size	PID	CPU	Private Bytes	Working Set	Description	Company Name
System Idle Process	64 K	0	71.83	0 K	20 K		
System	4,580 K	4	0.29	124 K	988 K		
Interrupts	0 K	n/a	1.33	0 K	0 K	Hardware Interrupts and DPCs	
smss.exe	4,444 K	296		288 K	940 K		
csrss.exe	50,400 K	396		1,688 K	3,740 K		
wininit.exe	44,076 K	508		864 K	3,448 K		
csrss.exe	176,032 K	516	0.17	2,524 K	13,260 K		
winlogon.exe	54,840 K	588		1,632 K	7,728 K		
dwm.exe	366,888 K	948	0.30	49,892 K	89,076 K		
explorer.exe	682,988 K	2648	0.15	50,484 K	126,672 K	Windows Explorer	Microsoft Corporation
firefox.exe	696,068 K	2428	0.01	225,352 K	270,364 K	Firefox	Mozilla Corporation
WINWORD.EXE	645,096 K	1724	0.11	126,944 K	166,272 K	Microsoft Word	Microsoft Corporation
proccxp.exe	83,240 K	4104		2,020 K	7,208 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
proccxp64.exe	152,040 K	1824	0.12	11,636 K	22,748 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
SnippingTool.exe	278,720 K	3924	0.39	12,604 K	35,736 K	Snipping Tool	Microsoft Corporation
Prepar3D.exe	2,985,096 K	2984	24.72	2,299,772 K	2,183,912 K	Lockheed Martin Prepar3D®	Lockheed Martin®
jsvcl.exe	141,744 K	2332	0.25	34,268 K	40,728 K	Visual Studio Scripting Engine for	Gamecentric
FSX.exe	40,224 K	1164	0.02	804 K	2,596 K		
MOM.exe	582,284 K	3888	< 0.01	20,372 K	3,212 K	Catalyst Control Center: Moni...	Advanced Micro Devices I...
CCC.exe	852,164 K	4176	0.02	99,028 K	3,112 K	Catalyst Control Center: Host...	ATI Technologies Inc.
usched.exe	68,944 K	3920		1,036 K	4,192 K	Java(TM) Update Scheduler	Sun Microsystems, Inc.
vmware-tray.exe	69,876 K	4352	< 0.01	1,216 K	4,772 K	VMware Tray Process	VMware, Inc.

CPU Usage: 28.17% | Commit Charge: 40.86% | Processes: 53 | Physical Usage: 50.52%

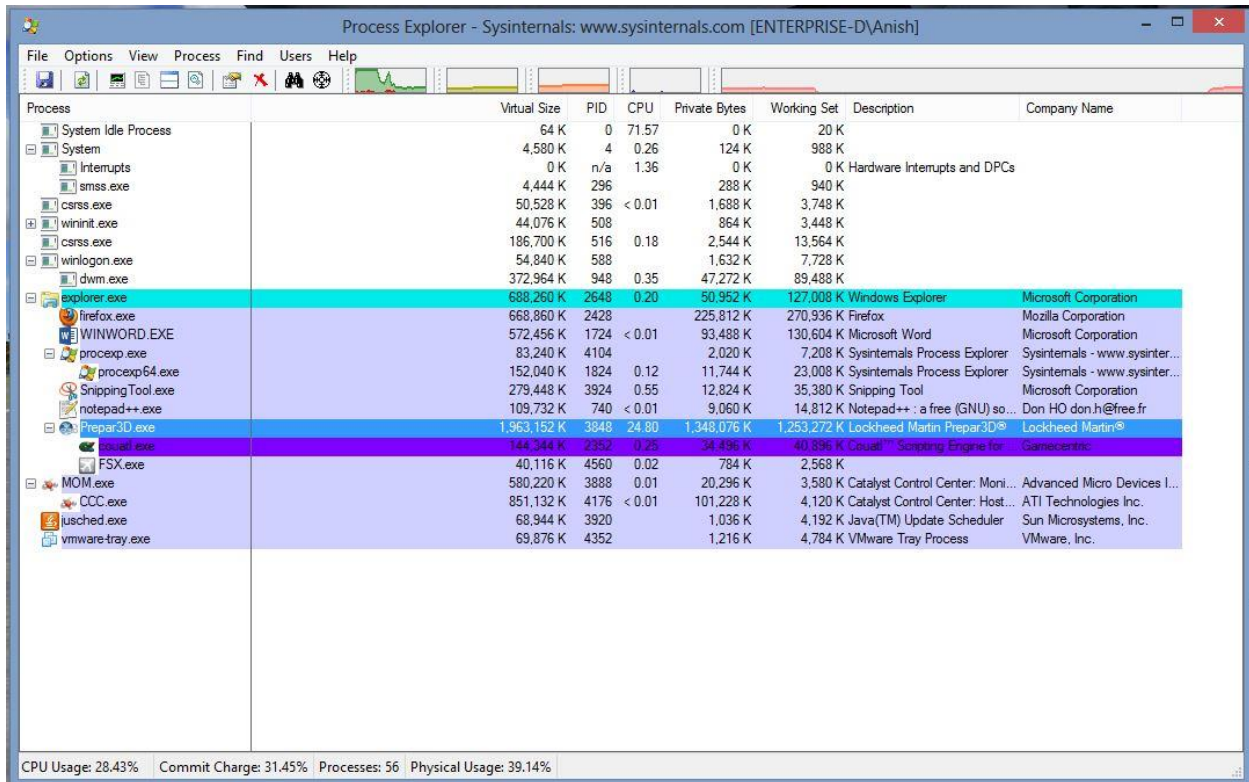
VAS Now Jumps to 2,985,096K (2.9 Gig). We Still have 1 Gig of VAS free.

Second Optimization

Works really well with 2048 Textures – LOD Radius to 5.5 from default 6.5

Since I am running everything at 6080x1200 Resolution, it really helps my system, as it has push everything to 3 screens.

Default Settings with 2 changes: 2048 Textures, and LOD Radius at 5.5 – VAS Usage



Process	Virtual Size	PID	CPU	Private Bytes	Working Set	Description	Company Name
System Idle Process	64 K	0	71.57	0 K	20 K		
System	4,580 K	4	0.26	124 K	988 K		
Interrupts	0 K	n/a	1.36	0 K	0 K	0 K Hardware Interrupts and DPCs	
smss.exe	4,444 K	296		288 K	940 K		
csrss.exe	50,528 K	396	< 0.01	1,688 K	3,748 K		
wininit.exe	44,076 K	508		864 K	3,448 K		
csrss.exe	186,700 K	516	0.18	2,544 K	13,564 K		
winlogon.exe	54,840 K	588		1,632 K	7,728 K		
dwm.exe	372,964 K	948	0.35	47,272 K	89,488 K		
explorer.exe	688,260 K	2648	0.20	50,952 K	127,008 K	Windows Explorer	Microsoft Corporation
firefox.exe	668,860 K	2428		225,812 K	270,936 K	Firefox	Mozilla Corporation
WINWORD.EXE	572,456 K	1724	< 0.01	93,488 K	130,604 K	Microsoft Word	Microsoft Corporation
procexp.exe	83,240 K	4104		2,020 K	7,208 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
procexp64.exe	152,040 K	1824	0.12	11,744 K	23,008 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
SnippingTool.exe	279,448 K	3924	0.55	12,824 K	35,380 K	Snipping Tool	Microsoft Corporation
notepad++.exe	109,732 K	740	< 0.01	9,060 K	14,812 K	Notepad++ - a free (GNU) so...	Don HO don.h@free.fr
Prepar3D.exe	1,963,152 K	3848	24.80	1,348,076 K	1,253,272 K	Lockheed Martin Prepar3D®	Lockheed Martin®
FSX.exe	144,344 K	2352	0.25	34,496 K	40,896 K	Simulation engine for	Gamecenter
FSX.exe	40,116 K	4560	0.02	784 K	2,568 K		
MOM.exe	580,220 K	3888	0.01	20,296 K	3,580 K	Catalyst Control Center: Moni...	Advanced Micro Devices I...
CCC.exe	851,132 K	4176	< 0.01	101,228 K	4,120 K	Catalyst Control Center: Host...	ATI Technologies Inc.
iusched.exe	68,944 K	3920		1,036 K	4,192 K	Java(TM) Update Scheduler	Sun Microsystems, Inc.
vmware-tray.exe	69,876 K	4352		1,216 K	4,784 K	VMware Tray Process	VMware, Inc.

CPU Usage: 28.43% Commit Charge: 31.45% Processes: 56 Physical Usage: 39.14%

VAS is literally at 1,963,152 K (1.9G)!!!! which is hardly a jump from 1.8G. This is way better than 6.5 LOD – it frees up more VAS Space

Complex Aircraft Load Only: QW 146 with 2048 Texture Setting, and 5.5 LOD – VAS Usage

Process	Virtual Size	PID	CPU	Private Bytes	Working Set	Description	Company Name
System Idle Process	64 K	0	71.28	0 K	20 K		
System	4,580 K	4	0.28	124 K	988 K		
Interrupts	0 K	n/a	1.28	0 K	0 K	Hardware Interrupts and DPCs	
smss.exe	4,444 K	296		288 K	940 K		
csrss.exe	50,400 K	396		1,688 K	3,740 K		
wininit.exe	44,076 K	508		864 K	3,448 K		
csrss.exe	180,524 K	516	0.13	2,528 K	13,496 K		
winlogon.exe	54,840 K	588		1,632 K	7,728 K		
dwm.exe	360,324 K	948	0.47	40,168 K	89,596 K		
explorer.exe	683,868 K	2648	0.73	51,232 K	128,092 K	Windows Explorer	Microsoft Corporation
firefox.exe	667,568 K	2428	0.02	226,028 K	270,964 K	Firefox	Mozilla Corporation
WINWORD.EXE	685,200 K	1724	0.12	144,756 K	189,000 K	Microsoft Word	Microsoft Corporation
procexp.exe	83,240 K	4104		2,020 K	7,208 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
procexp64.exe	152,044 K	1824	0.16	11,872 K	23,168 K	Sysinternals Process Explorer	Sysinternals - www.sysinter...
SnippingTool.exe	279,760 K	3924	0.20	12,440 K	36,116 K	Snipping Tool	Microsoft Corporation
notepad++.exe	107,148 K	740	0.01	8,920 K	14,784 K	Notepad++ : a free (GNU) so...	Don HO don.h@free.fr
Prepar3D.exe	2,704,112 K	3848	24.68	2,059,420 K	1,962,272 K	Lockheed Martin Prepar3D®	Lockheed Martin®
luaiff.exe	141,760 K	2352	0.24	34,404 K	40,984 K	Caual™ Scripting Engine for	Gamecentric
FSX.exe	40,224 K	4560	0.02	800 K	2,588 K		
MOM.exe	582,284 K	3888	< 0.01	20,368 K	1,732 K	Catalyst Control Center: Moni...	Advanced Micro Devices I...
CCC.exe	851,132 K	4176	0.04	101,228 K	10,924 K	Catalyst Control Center: Host...	ATI Technologies Inc.
tusched.exe	68,944 K	3920		1,036 K	4,192 K	Java(TM) Update Scheduler	Sun Microsystems, Inc.
vmware-tray.exe	69,876 K	4352	< 0.01	1,216 K	4,784 K	VMware Tray Process	VMware, Inc.

CPU Usage: 28.72% | Commit Charge: 39.27% | Processes: 54 | Physical Usage: 48.17%

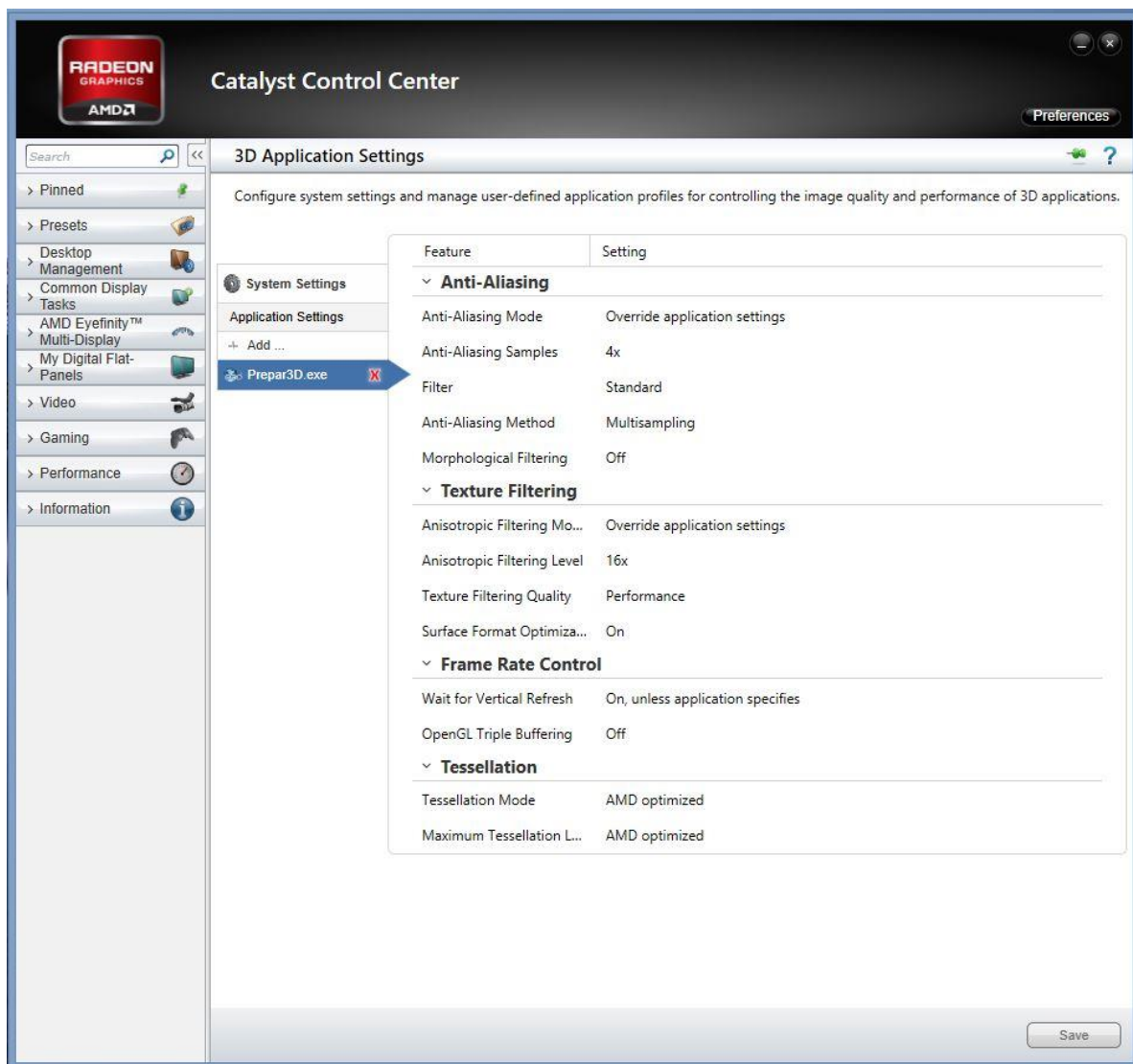
VAS has now jumped to 2,703,588K (2.7 Gigs). We still have 1.3 Gigs approx. of Free VAS!!!! After extreme complex aircraft is loaded

I have all the major complex aircraft (got them on great sales), QW 146 takes the biggest VAS, and works fantastic on my system.

Third Optimization Tip: Need other testers to confirm

Do not Use internal AA or Anisotropic settings – leave to bilinear in P3D – Do all the changes in ATI Catalyst Control Center

Create a 3d Application Profile with this – (ATI experts, help me optimize this further)



Hypothesis: Using Windows 8 provides smoother flight

The reason this is my hypothesis is that from what I can recall, in Windows 8 all windows drawn have screen have DirectX acceleration. Since I use P3D in Windowed mode only: I figured that DirectX acceleration is happening to its window also.

I do not use P3D in full screen mode due to ATC window and I want to pull up other applications with ease when simming at times. Besides the window is at 6080x1200 – it is super immersive for me.

Runway Light Fix – This improved smoothness for me

Since I am running at super wide resolution, this tweak from FSX Guide helped me. I had REX textures installed first, and I followed all the steps stated in the FSX Guide Runway FIX

Please see the FSX Guide Page 22 – It starts with the following sentence, “From a post by Brett Lucas... and end with last statement Michael Swannick’s lights found here: Instructions are included in the zip”

<http://forum.avsim.net/topic/398016-avsims-official-software-and-hardware-guide-for-fsx/>

My Settings (Set and Forget) – Orbx + REX + OpusFSX + My Traffic 5.4B Enhanced.

[Display]

RUNWAY_LIGHTS_SURFACE_SCALAR=0.9 //Runway Lights

RUNWAY_LIGHTS_VASI_SCALAR=0.9 // VASI Lights

RUNWAY_LIGHTS_APPROACH_SCALAR=0.9 // Approach Bars

RUNWAY_LIGHTS_STROBE_SCALAR=0.9 // Strobes

ChangeTime=4.000000

TransitionTime=4.000000

ActiveWindowTitleTextColor=255,255,255

ActiveWindowTitleBackColor=0,28,140,64

NonActiveWindowTitleTextColor=255,255,255

NonActiveWindowTitleBackColor=24,33,87,64

InfoUpperRightTextColor=255,0,0

InfoUpperRightBackColor=0,0,0,0

InfoLowerLeftTextColor=255,255,255

InfoLowerLeftBackColor=255,0,0,128

InfoLowerRightTextColor=255,255,255

InfoLowerRightBackColor=255,0,0,128

InfoBrakesEnable=True

InfoParkingBrakesEnable=True

InfoPauseEnable=True

InfoSlewEnable=True

InfoStallEnable=True

InfoOverspeedEnable=True

BLOOM_EFFECTS=0

SKINNED_ANIMATIONS=1

TEXTURE_BANDWIDTH_MULT=120

UPPER_FRAMERATE_LIMIT=20

WideViewAspect=True

[Main]

FIBER_FRAME_TIME_FRACTION=0.22

User Objects=Airplane, Helicopter, Submersible, ExternalSim

SimObjectPaths.0=SimObjects\Airplanes

SimObjectPaths.1=SimObjects\Rotorcraft

SimObjectPaths.2=SimObjects\GroundVehicles

SimObjectPaths.3=SimObjects\Boats

SimObjectPaths.4=SimObjects\Animals
SimObjectPaths.5=SimObjects\Misc
SimObjectPaths.6=SimObjects\Submersible
SimObjectPaths.7=MyTraffic\Aircraft
ProcSpeed=12011
PerfBucket=7
Location=2520,189,3560,968,\\.\DISPLAY2
Maximized=2
HideMenuNormal=1
HideMenuFullscreen=1
[PANELS]
IMAGE_QUALITY=1
QUICKTIPS=1
PANEL_OPACITY=100
PANEL_MASKING=1
PANEL_STRETCHING=1
UNITS_OF_MEASURE=0
[Weather]
WindshieldPrecipitationEffects=1
MinGustTime=10
MaxGustTime=500
MinGustRampSpeed=1
MaxGustRampSpeed=200
MinVarTime=5
MaxVarTime=50
MinVarRampSpeed=10
MaxVarRampSpeed=75
TurbulenceScale=1.000000
WeatherGraphDataInDialog=0
AdjustForMagVarInDialog=1
DynamicWeather=0
DownloadWindsAloft=0
DisableTurbulence=0
CLOUD_DRAW_DISTANCE=3
DETAILED_CLOUDS=1
CLOUD_COVERAGE_DENSITY=8

THERMAL_VISUALS=0

[DISPLAY.Device.AMD Radeon HD 6900 Series.0]

Mode=1920x1200x32

[CONTROLS]

Controls_Default=Standard

Controls_Current=Standard

KBDAIL=64

KBDELEV=64

KBDRUD=64

[TextInfo.1]

Latitude=1,1

Longitude=1,2

Altitude=1,3

Heading=1,4

AirSpeed=1,5

WindDirectionAndSpeed=1,6

[TextInfo.2]

FrameRate=1,1

LockedFrameRate=1,2

GForce=1,3

FuelPercentage=1,4

[TextInfo.3]

Latitude=1,1

Longitude=1,2

Altitude=1,3

Heading=1,4

AirSpeed=1,5

WindDirectionAndSpeed=1,6

FrameRate=2,1

LockedFrameRate=2,2

GForce=2,3

FuelPercentage=2,4

[SlewTextInfo.1]

Latitude=1,1

Longitude=1,2

Altitude=1,3

Heading=1,4

AirSpeed=1,5

[SlewTextInfo.2]

FrameRate=1,1

LockedFrameRate=1,2

[SlewTextInfo.3]

Latitude=1,1

Longitude=1,2

Altitude=1,3

Heading=1,4

AirSpeed=1,5

FrameRate=2,1

LockedFrameRate=2,2

[GRAPHICS]

HIGHMEMFIX=1

ForceFullScreenVSync=1

SHADER_CACHE_PRIMED=236096256

TEXTURE_MAX_LOAD=2048

NUM_LIGHTS=8

AIRCRAFT_SHADOWS=1

AIRCRAFT_REFLECTIONS=1

COCKPIT_HIGH_LOD=1

LANDING_LIGHTS=1

AC_SELF_SHADOW=0

EFFECTS_QUALITY=2

GROUND_SHADOWS=0

TEXTURE_QUALITY=3

IMAGE_QUALITY=0

See_Self=1

Text_Scroll=1

[DynamicHeadMovement]

LonAccelOnHeadLon=-0.020000

LonAccelOnHeadPitch=-0.010000

RollAccelOnHeadLat=0.010000

YawAccelOnHeadLat=-0.100000

RollAccelOnHeadRoll=0.100000

MaxHeadAngle=5.000000
MaxHeadOffset=0.300000
HeadMoveTimeConstant=1.000000
[VirtualCopilot]
VirtualCopilotActive=0
[ATC]
ShowATCText=1
AutoOpenAirTrafficWindow=1
UsePilotVoice=1
PilotVoice=0
[USERINTERFACE]
SHOW_MISSION_CAPTIONS=0
PAUSE_ON_LOST_FOCUS=0
PROMPT_ON_EXIT=0
SITUATION=FLIGHTS\OTHER\Prepar3D
Map_Orientation=2
MUTE_ON_LOST_FOCUS=224
[PointOfInterestSystem]
CycleSetting=0
[SOUND]
PrimaryPlaybackDevice={DEF00000-9C6D-47ED-AAF1-4DDA8F2B5C03}
VoicePlaybackDevice={DEF00002-9C6D-47ED-AAF1-4DDA8F2B5C03}
VoiceCaptureDevice={DEF00003-9C6D-47ED-AAF1-4DDA8F2B5C03}
SOUND=1
SOUND_QUALITY=2
SOUND_LOD=0
UISound=1
SOUND_FADER1=0.490000
SOUND_FADER2=0.490000
SOUND_FADER3=0.490000
SOUND_FADER4=0.530000
[SCENERY]
LENSFLARE=0
DAWN_DUSK_SMOOTHING=1
IMAGE_COMPLEXITY=5
[TrafficManager]

AirlineDensity=25

GADensity=25

FreewayDensity=0

ShipsAndFerriesDensity=0

LeisureBoatsDensity=0

IFROnly=0

AIRPORT_SCENERY_DENSITY=3

[TERRAIN]

LOD_RADIUS=5.50000

MESH_COMPLEXITY=100

MESH_RESOLUTION=23

TEXTURE_RESOLUTION=29

AUTOGEN_DENSITY=2

DETAIL_TEXTURE=1

WATER_REFLECTION_DETAIL=4

WATER_REFRACTION_DETAIL=0

ENABLE_BATHYMETRY=0

WATER_CLARITY=0

[AContain]

ShowLabels=0

ShowUserLabel=1

ShowLabelManufacturer=0

ShowLabelModel=0

ShowLabelTailNumber=0

ShowLabelDistance=0

ShowLabelAltitude=0

ShowLabelAirline=0

ShowLabelAirlineAndFlightNumber=0

ShowLabelFlightPlan=0

ShowLabelContainerId=0

ShowLabelAirspeed=0

ShowLabelHeading=0

LabelDelay=1000

LabelColor=FFFF0000

[INTERNATIONAL]

ASLAT=3

ASLON=0
MEASURE=0
[REALISM]
PFactor=1.000000
Torque=1.000000
GyroEffect=1.000000
CrashTolerance=1.000000
General=1.000000
UnlimitedFuel=False
AllowEngineDamage=True
TrueAirspeed=False
AutoCoord=False
RealMixture=True
StressDamage=False
GEffect=True
ManualLights=True
GyroDrift=True
CrashWithDyn=True
CrashDetection=True
OnCrashAction=0
AutoTrim=False
[SIM]
SYSCLOCK=0
[STARTUP]
DEMO=0
STARTUP_DEMO=
LoadWindow=1
[FACILITIES]
COUNTRY=
STATE=
CITY=
GTL_BUTTON=4096
[Misc]
Com_Rate=7
[MULTIPLAYER]
condAccoutPassword=0

VoiceVolume=1.060000