

R0 6.2m
A0 2.0m
XEO 1.5
XE1 1.0
XDO 0.3
BTO 5.3T
NRHO 160
XLO 9.404389E-03

BETAPO 4.0026035900E-01 9.3324712485E-05
F0 1.6430001600E+08 9.7382826792E-08
EO 1.4826649400E+00 5.0582756710E-08
DO 7.7558405700E-02 1.5213055140E-08

(BETAPO and F0 are in the units as used in original VMOMS)

Numbers in black are data from original VMOMS’s run.

Numbers in blue are relative errors compared with my code’s run.

Numbers in red are maximum relative errors in that category.

X	R0	ROP	EO	EOP	R2	R2P	ROPP	EOPP	R2PP
5.093880000E-02	3.1525664300E+00	-9.1559179100E-03	1.3017118000E+00	-5.5758629000E-02	1.0948731500E-04	4.2818328400E-03	-1.8077059100E-01	3.7288808800E+00	8.4278337700E-02
1.381610780E-01	3.1510803700E+00	-2.4939272600E-02	1.3015558700E+00	1.8445253400E-02	8.0643012200E-04	1.1742587200E-02	-1.8175187700E-01	2.3829335000E-01	8.7207093800E-02
2.445932480E-01	3.1473903700E+00	-4.4493991900E-02	1.3046877400E+00	3.9769709100E-02	2.5625238200E-03	2.1392818500E-02	-1.8631474700E-01	1.9333273200E-01	9.4973601400E-02
3.531021480E-01	3.1414494500E+00	-6.5179951500E-02	1.3101904400E+00	6.2268856900E-02	5.4672821400E-03	3.2405130600E-02	-1.9610954800E-01	2.2680600000E-01	1.0931495600E-01
4.610918460E-01	3.1332356900E+00	-8.7286725600E-02	1.3183494800E+00	9.0036124000E-02	9.6454192000E-03	4.5413315300E-02	-2.1547612500E-01	2.9400536400E-01	1.3377651600E-01
5.701192620E-01	3.1223747700E+00	-1.1264470200E-01	1.3301211600E+00	1.2812672600E-01	1.5465302400E-02	6.2126804100E-02	-2.5408890800E-01	4.1731625800E-01	1.7702549700E-01
6.770696040E-01	3.1087534400E+00	-1.4342610500E-01	1.3465812200E+00	1.8381808700E-01	2.3249320700E-02	8.4842622300E-02	-3.3067843300E-01	6.5133953100E-01	2.5661647300E-01
7.850582600E-01	3.0910744700E+00	-1.8697451100E-01	1.3710322400E+00	2.7824327300E-01	3.4174077200E-02	1.2051917600E-01	-4.9903300400E-01	1.1729366800E+00	4.2777973400E-01
8.920086030E-01	3.0676081200E+00	-2.5930118600E-01	1.4094998800E+00	4.6606573500E-01	5.0145242400E-02	1.8594342500E-01	-9.2757719800E-01	2.6139602700E+00	8.7679719900E-01
9.948055150E-01	3.0343265500E+00	-4.1255012200E-01	1.4776200100E+00	9.5361620200E-01	7.5774751600E-02	3.3963957400E-01	-2.4182324400E+00	8.4540805800E+00	2.5312395100E+00

Relative Errors	6.6044191815E-07	1.3188072936E-04	6.0959075733E-06	1.5596101205E-02	2.8558099654E-04	2.9996198417E-04	8.2656669249E-06	5.8382972975E-03	2.6796183708E-04
	6.6428745211E-07	8.5217367607E-05	4.8322761512E-06	8.6560015400E-04	2.6367328550E-04	2.3298550268E-04	4.6183326651E-05	1.8290068174E-03	3.3467988622E-04
	5.4183839296E-07	8.3278010501E-05	5.7010932057E-06	1.4665606763E-04	3.7782348982E-04	1.0945012498E-04	9.6927338199E-05	4.1907957984E-04	1.0921903735E-03
	7.4915942693E-07	8.5274356198E-05	6.0314026714E-06	1.8485326166E-04	3.1972150444E-04	1.8212397165E-04	9.1407255265E-05	1.2420334240E-04	6.4612266390E-04
	9.4510082645E-07	8.9049685594E-05	6.7348895225E-06	2.2560484640E-04	3.3831741667E-04	1.6475106948E-04	1.0514170858E-04	5.4014358099E-05	6.7425130406E-04
	9.0874326089E-07	1.1911047277E-05	5.5689294350E-06	1.3364580838E-04	1.5948256458E-04	1.2851999798E-04	1.7071483971E-04	4.2500299005E-04	2.2071231224E-04
	1.9758006894E-06	1.6154256758E-04	9.5827622043E-06	4.5260018090E-04	3.0927527775E-04	4.5915062544E-04	1.8987121114E-04	8.0644636160E-05	2.7172714041E-04
	1.0327625268E-06	3.4731325204E-04	2.0635408471E-06	1.2161610097E-03	1.1426176423E-04	5.6611087663E-04	1.6625619552E-04	2.6140405763E-04	1.0973784340E-04
	8.1032487161E-06	9.6140791493E-04	5.6331178751E-05	2.3596569752E-03	5.5833929323E-04	1.6838391956E-03	1.4060137629E-03	1.6484997944E-03	1.5013546006E-03
	2.9088460371E-06	2.0514674479E-04	1.6256248770E-05	3.8141672433E-04	1.9767374734E-04	3.4521796176E-04	3.9384413309E-04	4.8749123039E-04	4.4238103607E-04

X	P	PP	I	IP
5.0938800000E-02	9.9151700700E-01	-3.3325159500E-01	5.1313582800E-03	2.0197692500E-01
1.3816107800E-01	9.3870669600E-01	-8.6587154900E-01	3.7562273400E-02	5.3882026700E-01
2.4459324800E-01	8.1768089500E-01	-1.3757526900E+00	1.1535982000E-01	9.1453409200E-01
3.5310214800E-01	6.5058499600E-01	-1.6599222400E+00	2.3245243700E-01	1.2297779300E+00
4.6109184600E-01	4.6819225000E-01	-1.6738060700E+00	3.7792810800E-01	1.4457210300E+00
5.7011926200E-01	2.9628047300E-01	-1.4447630600E+00	5.4170191300E-01	1.5343470600E+00
6.7706960400E-01	1.6111829900E-01	-1.0666605200E+00	7.0361906300E-01	1.4653679100E+00
7.8505826000E-01	6.8781316300E-02	-6.4690136900E-01	8.4986013200E-01	1.2093859900E+00
8.9200860300E-01	1.9346367600E-02	-2.9274794500E-01	9.5624202500E-01	7.4207407200E-01
9.9480551500E-01	3.4255725300E-03	-2.2036628800E-02	9.9976581300E-01	6.5323457100E-02

Relative Errors	2.5886554087E-04	1.8266900850E-04	1.7636597957E-07	2.0107855934E-06
	2.5887355680E-04	2.6430547712E-04	1.6428824562E-07	1.2960339908E-06
	2.5890548486E-04	2.5623744490E-04	2.6645741954E-08	5.1296914360E-08
	2.5889246044E-04	2.5701893965E-04	1.5025581425E-08	3.6319267814E-07
	2.5880769735E-04	2.5710103720E-04	7.8574356891E-08	5.9207850090E-07
	2.5883426421E-04	2.4960776896E-04	3.6334119299E-08	6.4007547027E-06
	2.5897295092E-04	2.5899688021E-04	7.5139216319E-08	2.6153326641E-06
	2.5925627091E-04	2.5719699618E-04	6.2680294004E-08	6.2017986500E-06
	2.5837898711E-04	2.5750336228E-04	1.7008005894E-08	1.1078947835E-05
	2.5881484877E-04	3.4078832819E-04	3.5668863284E-09	1.4043802483E-06

X	Q	PSI/PSIO	F/FO	FFP/FO^2	PHI (in CGS units)
5.3015515200E-02	8.0616104600E-01	3.7116841400E-03	1.0736799200E+00	-1.9808355700E-02	2.5656460000E+07
1.4023777800E-01	8.1107950200E-01	2.6245443200E-02	1.0707672800E+00	-5.1372777700E-02	1.7939924800E+08
2.4615050900E-01	8.3169460300E-01	8.0155409900E-02	1.0639572100E+00	-8.4716796900E-02	5.5337606400E+08
3.5829341400E-01	8.6956667900E-01	1.6679358500E-01	1.0535205600E+00	-1.1038892000E-01	1.1756023000E+09
4.6420615900E-01	9.2507076300E-01	2.7329123000E-01	1.0416435000E+00	-1.2236835100E-01	1.9820656600E+09
5.7011884500E-01	1.0080727300E+00	3.9957720000E-01	1.0291054200E+00	-1.2034577900E-01	3.0112972800E+09
6.7603159000E-01	1.1337118100E+00	5.4062670500E-01	1.0173833400E+00	-1.0380663000E-01	4.2830535700E+09
7.8817451000E-01	1.3475906800E+00	6.9959658400E-01	1.0075095900E+00	-7.2456575900E-02	5.9376844800E+09
8.9408725500E-01	1.7057207800E+00	8.5208541200E-01	1.0018085200E+00	-3.5139385600E-02	7.8800081900E+09
9.9376982500E-01	2.4210903600E+00	9.9154734600E-01	1.0000100100E+00	-2.4398292900E-03	1.0245796900E+10

Relative Errors	4.7672896911E-06	1.9662714300E-04	2.1862984175E-06	3.1714286715E-03	8.2721697011E-05
	5.7932922425E-06	3.4741261885E-05	2.1430726571E-06	3.1675999302E-03	1.5663478461E-05
	7.2825506528E-06	1.4826711316E-05	1.8827531701E-06	3.1730118174E-03	7.7716578829E-06
	8.9439555537E-06	9.6463459970E-06	1.5593785281E-06	3.1704829978E-03	6.2111900258E-06
	1.1407313841E-05	7.7628614574E-06	1.2419930717E-06	3.1668538733E-03	6.5825555395E-06
	8.6160419101E-06	6.6043862438E-06	8.5708453452E-07	3.1574610633E-03	7.5695767042E-06
	2.5450714622E-05	4.5179071852E-06	5.2173901332E-07	3.1813327127E-03	4.8074078093E-06

	3.9335863157E-05	4.3908614097E-06	1.4982987906E-07	3.1001583127E-03	1.0333263835E-05
	2.3275244070E-04	1.3698421109E-05	3.5062939977E-07	3.4075486931E-03	2.4736561473E-05
	8.7643458144E-05	1.0526160888E-07	7.1455364674E-08	3.2289252518E-03	3.0675634699E-05

X	AGSQRT	AGTTGS	AGRHO	ARIF	AR2IF
5.3015515200E-02	2.1730527300E-01	1.7422128500E-02	7.9680275900E-01	3.1722921100E-01	1.0064862700E-01
1.4023777800E-01	5.7534724500E-01	4.6070858800E-02	7.9502016300E-01	3.1753549000E-01	1.0092867900E-01
2.4615050900E-01	1.0123995500E+00	8.1009127200E-02	7.9248762100E-01	3.1828609100E-01	1.0161626300E-01
3.5829341400E-01	1.4805970200E+00	1.1827120200E-01	7.8787142000E-01	3.1955567000E-01	1.0278198100E-01
4.6420615900E-01	1.9322227200E+00	1.5378971400E-01	7.8080451500E-01	3.2124918700E-01	1.0433819900E-01
5.7011884500E-01	2.4004080300E+00	1.8963858500E-01	7.6974475400E-01	3.2351303100E-01	1.0641221000E-01
6.7603159000E-01	2.8992173700E+00	2.2570405900E-01	7.5235068800E-01	3.2652947300E-01	1.0914567100E-01
7.8817451000E-01	3.4956071400E+00	2.6367473600E-01	7.2199696300E-01	3.3098161200E-01	1.1308105300E-01
8.9408725500E-01	4.2137713400E+00	2.9817280200E-01	6.7144012500E-01	3.3736729600E-01	1.1848357300E-01
9.9376982500E-01	5.3296651800E+00	3.2701286700E-01	5.7937306200E-01	3.4778952600E-01	1.2677113700E-01

<i>Relative Errors</i>	1.2013100980E-05	1.5818447097E-05	2.9090587791E-05	4.4695912636E-07	1.0480832391E-06
	4.9402061811E-06	1.6233557665E-06	4.8019690527E-06	8.4294083468E-07	1.4546835592E-06
	5.2637058759E-06	2.2362324810E-06	4.0562819655E-06	1.0056518022E-06	1.4668120790E-06
	6.2840248322E-06	2.1147064017E-06	5.2956744821E-06	8.9639780455E-07	1.9772822728E-06
	7.8532155806E-06	1.6598909273E-06	7.6199221721E-06	1.5008620614E-06	3.1042667509E-06
	2.2192324931E-07	7.4307376687E-06	4.6576252222E-06	5.1992594081E-07	1.5109249493E-06
	2.0374006934E-05	2.7696505715E-06	2.4957332316E-05	4.0175317528E-06	8.1854984794E-06
	1.0724250506E-04	8.1054271161E-05	1.7114924786E-04	7.8291608689E-06	1.3235514963E-05
	2.9728421991E-04	1.2465624049E-04	4.0377784192E-04	3.3566756960E-05	6.0411515704E-05
	8.3674218507E-05	1.5891090814E-05	9.8193964443E-05	1.1068055931E-05	1.9850888606E-05

INPUT PRESSURE AND CURRENT PROFILES:

