

---

Subject: \*\*\*\*\*FreakQ Update\*\*\*\*\*

Posted by [Mike Audet](#) on Tue, 25 Sep 2007 01:49:54 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

This is a multi-part message in MIME format.

---=\_linux46f86942

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Yo, yo!

Attached is a new version of the FreakQ!

New in this release (both mono and stereo versions):

- All Mid and Hi Shelf EQs now have selectable frequency points.
- I've added output metering to check for too much gain building up from boosting bands (and because meters look cool).
- The low shelf has been removed because of a problem in the dsp code that I don't know how to fix that caused massive distortion when it was used.

I had hoped to make this eq fully parametric by having a width control, but it either isn't possible, or I just don't understand the math going on in the algo enough to make it happen. A friend of mine who is far better in math than I am has offered to look it over. If there is a breakthrough, I'll implement it.

Let me know what you think!

All the best,  
Mike

---=\_linux46f86942

Content-Type: application/zip; name="FreakQ1.5.zip"

Content-Transfer-Encoding: base64

Content-Disposition: attachment; filename="FreakQ1.5.zip"

```
UESDBBQAAAAIAOBh9yzcyqci8hAAAGZLAAAIAAAAaWRIYWxvZ2+9XDUs7EoR
LSKIkCzWcE1MLGwFDIFB4JQrZyzWlQc2lWeMctYhA4s1YMwSnlUyMMTJzPpk
faTue+GS9/VMj0pdOid/lZVSvz/8+S9/Miy//7Uxv8Xvv+L1N7x+ZWY+/rs/
GvOP38irlo3/M9smv+gf3hzHYY5/HeaXf/7dmG8LXh94YeDbJ14HXl/G4LBZ
vuGFNwvGF4wvGF8wvmAch8wHxj8w/oE/PjD+gfEPjH98xetifMP49sEYzlbx
```

DeMbxvHWfGL8E+OfGP/E+CcOfmL8E+P4ZQ6MHxg/MH5g/Pgk8HhhHP+ZL4x/  
YfwL418Y/8L4F8a/vgS++YYX/fvAa8PrE68Dry+h9g3j4L+A/wL+C/gv4L+A  
P9PGSQveLOC/gP8C/gv4L+DPKgh/BfwX8F/AfwH/BfwX8Gd1gf8C/gv4L+C/  
gP8C/gv4syrBfwH/BfwX8F/AfwH/BfxZzeC/gP8C/gv4L+C/gP8C/mSCBfwX  
8F/AfwH/BfwX8F/AH5fH6xuz3sCfbQ/+G/hv4M+mAf8N/Dfw38B/A/8N/Dfw  
Z7OB/wb+G8hulLQB9AZgGy7OJgX/Dfw38N/AfwP/Dfw38Gdz4ylbJtpw8oYD  
G/hv4L+BP7sC+G/gv4H/Bv4b+G/gv4E/uwn4b+C/gf8G/hv4b+C/gT+50Ab+  
G/hv4L+B/wb+G/hv4I+P4/WNrX2A/8HMP/Gif1/iWuB/gP8B/gf4H+B/gP8B  
/ux24H+A/wH+B/gf4H+A/wH+7JLgf4D/Af4H+B/gf4D/Af7sruB/gP8B/gf4  
HyB9gNgB8OzK4H+A/wH+B/gf4H+A/wH+olkXxgHkwMUOTHjgQ7/8+zKe9EQK  
Nhf/Z65LftE/OkR/f6+EVyf8gDC09NYZw3/Tb+s8vfUC38SRCOF/j0ThsHQp  
a56EII5mmc/zHB1/X1ocl4Q01U8S6LD7r5SU53XD63onA9YqVXWTeDm+Tj8O  
JU9btKHeuStfxBl/CyQdd/6HgeRZfVZInNaVk4quBFTjJHMedvv8g0jouvXR  
jhGbcdj6UI6OJTQK45U1JkNTEEQSwjkkTNSHcg+63FVdCp8pRjGdPioPdydf  
6gZMCNMc39UDCYdNbEUI5Urhigw06/SpMokSu/rznILSi7zHTBPOOD9fvRQc  
aRbDPhnVEabz9N6fHAMyxBbq9TzeaR5kYj/R54IGmKfT7ytEtO6vXjocLANf  
mc0FdUtyLYpJUwhvcK1D37qJh87mOEamFsUNDhdnXvXB9RIvYSDDfNYiOUkb  
0yA9DnKvyTgkX5mYNRCNjUNEIA6u4/nsfrKrRk4qnCfTiXutD59tUk/Jlh/3  
cloTu0nYFcRXLNEOwfudnMOtKwb4+ACGxoH/QDba5Byo08pHYggPJssC94Zz  
S/jqAA3TbtnTOqlwKBg9CiYi5oB17BhI9FmWfET/Vd7WUnA4Mnr20NHi6yZn  
yD+SjObDh+eJ7FAS6wk7uZ1C/yHVmtouFxpOXDTKRE7hLcsdlBLrZAD8m6Oj  
rWeE8UlfpqSNgY/zsHYwhtP76nyq2HX7hHUv2dgyrHsxEQdpgGYIBwhd5hHZ  
FY5Aqb+fNXSa3ENINrZDDxUxzToHF7ymvZ2MJVYXMXMkX6pk1gzc6py161RW  
pnGosBhll6ToQepgmUJvtQ1mq7Sxk3PM+NCcnf6+djQFRzrpzj1onSSvcD6v  
ds1kU2VPyr/sqdf52jJpMq987hy5h91V9enMyoj4xEsd1uKC+GVQenKjNZ/E  
FP/lx0ZLE1aLMkX2Dc8BnBa9UH/AIXQxJ4T2rpQ2KI7ywYE+IEZdVbteu2M0  
V1cpsVtz/iyxa+4qacOXp0FfUnXvIKsKWVvBkBWEEIxo1KhX9zmF4J2nmqIG  
BaQNGF3KuZhnVP6Q3y16hSPkmt7eOijCoZ2kroC0UaNveFcsGeRHm8ImnedC  
VMhw0b8aHLHSuq6ulswIVfryTVpvvcpxdfv8Ng52Ek4O/NfEBbJUyFKHEahR  
FpXPzI2Ueb2eRIW8gSOJz4dCWapDjNH69OwgYeje6oQ0bitrIXkGOKT87E9m  
zfdYkvQ46tgIUhRqPw3IVzupWMH50bXYKKIwpe+Lk8RgNbARRzrX99iKbloc  
UVzc4Ca9OKPTV10jowCbUGf0/tHgmAY4stzgsEbCMqUU4TlwbZhlJ2d96Fbp  
ZjFhw+ztFJHPLy6LV9VsH64bu9MQVLtNF+1KoDZnEdB2T5nWpncs1QaBCmRf  
A5Ftay6o/cBBmtggoPXCT7YWqhoHqYjdLuK4RCdGPJQiV47yVDNvnUuFM6I2  
TJKzwsGbkUnlFNKfkwRFA6dozJ1VnZyTPIFSaUpHbmX0Cz7hozQ6sOVIOTy  
DpaAKBw6CvL7kCoCNWOLggwwYVfQlbV7h8PH2ohUYV2a1pr7uC0/yyn8oQ6F  
2WdUtOvcO4iqhEg8nDnQLJwPnVwhXKlWuQZiedzy0p7rAYHRhgXKelQsxWio  
mleGAqbyD0/RErlqSLzkgtskL4RV7zsLWFUuwKGs1JmhWawWdQ89FMMolXu  
n3Gk7JG9du52WFQVnJayQphUYR6lbrjsO3tbSlth+VmXpUricArf5KldqqLQ  
3Hm/OXtC0wCpVv5rP4N03rQqotzgiJLCJgZsZxTa4vn1FK/hWrw+pcrs0zrH  
1LA7DkT+eUI9+Yyjrkh73gzBoLYP9SmsGKHadFhtGO/JkWPYhjh94viMQ2fy  
G23QD9qeuDMm4ypo1qwQBNUZ/SDUeZHhvl+j310BwUROIUZJmqvW3dJrCDPt  
PUJKAIW0uCqvNxlTTPqj33x7XNrvE2sjbbPoZ3Vm2TdRPEVfv9hFQvY7d5tP  
E7mSObpQcTwP9E7ptZQVIW/erFudXXUmE/Exk5afOHKHI0o2TNe4Y/ekniAB  
rDui1lly/uSe3GjbpNwzK+RdHL1VyBOWkFE5WODN2NctJ9eKV7h0fzDdMXAx  
aPjxn8qhO9ljAumclDTg4XmhtgoJX3tCnWb33cv2p+9Whto+r+wSpW97kToo  
VibTWoVOL42G2IsKdM9CbCQj+dwYcm/hCHOXoiZKnVPrpEIOZUZaA6UkUDp1  
xTD2O3B0XsoL+B53rV1Poyndp6tdifuVzrzCQZ/o1TFTlj9jGHVmiSk18Y+3

bvKHyyfpgtc84RAfa9VhpfDczRxptupITo1dOmrpnduu6RjXYT51gPekkYd8  
WqQrPCIOA03Fs9smFmlj2+bmDY3Lbq90KtRGkX+8gSO0DSfUv+QZcdnqOhHR  
BLo4DRxXeg+VVgz2jff5IKSrfzteXKLNahSp4sz1b1julPhKz/aY20VFFIG  
ji6n8ybE2hA7c81WMW5jdkpmGYqnEkADC0kjinm+0vcqn11X7ulyC9bbymlkdd  
hKY+h6f9d4J42kErWZlm3lepJPRrC134pGucQxwStbwjjRkukFX6m0C6umlw  
YAPfLQTtbsCle5zpJl6DQ3fZ49DZ5bqQ9Ex/NPmDM9Y++ES7K6ETVt4x+xGO  
YkdZh8nP60nTH7SNx/t97fqWVGhOzWfasl27oJASXHebvBRk4pp7WQID81ta  
CDI/SOKMem79v2048aaJwyXi6Ayf7rpaub0vluzOYmEgTf6lhm3bSaN+9cw4  
xFEHpV90VI5VARbuyvfc+xNlzrxqzXyy61ov5A003jxPIptO8Wrt/IHaNFZW  
ZbgSuYk3tku8LG39gUql+GOI6iqNWX9K05ZxnKP1RaajNZpb7K7FH5uYJvQ  
rfsV66grNLYKvuRhIOPDe7tcFS6mVe4c+aHHqw4oTRbu08kHHOdrJwKxmq1  
FVUT6imuXoOA4XNOmSNc8QEO5/fdObdSgdgDTzja3L2WKav0EbmF9C7h6Hqz  
7J7zJI4y+e4mvV3Uulbl3HbVVx5hxwqHKndcwqiKR68RgL1z+feTpymb7Ab  
wdEVoPmKdfqQoxywNFNSVY4e+Lmu7vkYLW3sGMHRN1hkjQqNPmKGJMSjphq  
+6Y55drhMxNJmqJfClS+N27YEUNr1gTU6WocJipDckRMSVWx0HB0RfkJKKQ  
+I56XNQo83J6j2O+wXG6J12Qd7QaNkYP8Z1jzzTDCleJt83jWJNSpxGtlgMY  
jGP2I7OI9oY4AI2IlzuN6Q523+htBIX8EMe9Ldcw1seVom5prFob23Zul469  
boDjHj63lQY4aCvhlJ+q0A39o1Z+OhU0m9Jsh+PBmi4090P9DQ4TGYZ6oSI5  
6QJF5+Iplh7HgxqRKkc46GINjqiovp1V3UBUofUeB008yDTGMcZcZSLSi4L  
w5sO3pSeg2xj6KzvxVH9He0SceglQzXZyl7zTqvYf8ws/HqzG5e4qgJxnjx  
SQFt7dQvVFSyqEhGKkBeOttk3mJo5455nWXKqLGMMMFwmkdQcErJnXNQmde  
4aibDrFQ43waaq/kequ/V9gIHH/CJL5dos0zDqzzlcGI1GBr740+WFUDs9Ri  
qWYAjgbGKxyu2b1YKQbo6nJvZa0j93mZNZx4qWPRLvuvpPimQlpDjhl6oM4  
jhqcjY4aWnQ/6Pv8dKodL5ZzbBfORxoHcXxeaE3EQTdiXKhyu3nE4eqKID/9  
RelwauKW93Xv4PDQx8qOpoCYRxy+rqtirIwZwklqVQWTcLxjF49p97TITVDM  
Ew471xVN8i5O1DyDTnJ818S8kJVue+/zLvfi0LME469KTO9cGAtyB5Yj5M+  
Xsat53vfeMnjitJzAMOdza35FL7gK4m7Xs9Tsi6Va4VT3Nav2Nyp/f/5gGH  
b+vMtB90spFpag3S1st86nfeY8rEqioz9zhcuyFM2xSKIXm4tDlbBfJwfVfi  
scPNk9qpVJPmHsfzpmSMa04UtxV+uLq/pWDyHNf9MPRs+Tv4Gj3ILHrxuqQ  
dabujPCh/qmp6hz9HkDK85PmuS7UljdKEsvqlqK5VD/MMqtWOpB6PzxMgmK  
xBKlfFNUU9deccqXEZPEAkhrIHncv2hJ/ZyoDspCpylvO5h3UnsWa9fc+8ef  
L32Lxaae2WmtLHehalfl8DS/yYqFvvag8thwl93KGoP9dNITgkq3sVnn/OD5  
vluBh2gc7/iWi60FguHSc2EI3ab2EfJKt4G5F9LHXHC8Y5izwJA8Av6qtxd7  
uSe9eRuHJRyXwvHKMCm+pEucvm6hYcSnLiayz9s42C4ax4vujYtfqRG3IK7o  
Va21yeuxEM+c5uxbTmKd1/4h/Yz7s2OkMnr89Sb1eAyfIcV4blZoya7rc0Mo  
fg44dNyGQa9AyTpLo4z5xwdcgt5Rqka/ZDG3vwNDh63o47r7ygtJvB8zizZS  
Apwq58giO5tzfctHMFv+oBEcYd7HDCzBCPIZqXiXTRsy9+I5p8zOnfO5vuEf  
OloyDn4ObXT2Sl8cjY/RWco61KISyrBaG4wmpEeFH4W+MroWGAXHNQ9ss9L3  
V6c4rY1Jp3KmpdWKCcbFT/+9wGFrJ1U46PNT/Xn+tffk+s7L9+p1b1R5xtt  
iNA8r5CoNU7jICHqO323CvllpUdqyndZCTw/O1pBHX3vKrzGwd94W31128bU  
G01+Fp0eMZrnijLOH/OEq6My96jEIHkXsHYG002OlpIjHDxBk3EMOGvk66o  
davasP7uJVc69yw73An4ZSnr0b3355laBgr6d65tes6POP4cWnvedBfpAf+  
w/uBQX8ODIJIQWJZF2RMOFz0f+5/LbzCJChkESrOzys/J9Se/7NwnLsTJOwo  
trQHY3lyNSr5WThgGv6aJ6vCVXflqWnR3dr+eThl6H8dABCD+Gjl5+JgaSwQ  
Bsf+LzjeEgTXfwBQSwMEFAAAAAGAtqs3Nw7rqUkUAwAArWYAAAwAAABlcXJI  
YWRtZS50eHTFVE1vFEcQvY80/6FiCQnQei1AiYJvQlxsCWFJE5GDLz09NTsd  
93SP+8Ozy6/nVfdinEiJIJesdrX9+eq9V1V9yaqfeJ22qW3a5szFpKxVyXhH  
MglZyzgey+4n43q/RHr5K6a/u89mpjQyfoGZBmM5UvJISR9fL/XwddzFxNM1

u+idub2ebd4YF6k3gXXyYfcQ+I+LHwZ+8fzfoX/jqI0Zv4I4G1jdfMDw8Mc/  
cv+9cUydcj2lbbmnkw9kHIFKYE+yPHnn6Y5DIJBrorZ5ox1TDniOHwVHeDJ  
IUV6/PD0kxWpviVYH2hfacsTUqQ41oin6plqv8zI0WdFYg5pxLR5yRDrG9Y  
In4cDTBAUyNw7yn6iQnxjM+xbSbINta4jVi68zlgOwMkeuGoVeAhW4CcJQKK  
84kOkpIMf0AIL9QvXI2eXbUN30Ya1R28YEaUYnPHfRHcNlcScvaJXTKQAeng  
Hvi4bD7IW+JhQJJinezdqJOObx8Ywoi30O5wvR7+q3f0+PT8E705P3/3pN6T  
C4iGq5PZIs5TZObi8uTq5OPVT8W/e1vwNwdOaSfch13xUCNZeQLL5z8/lj98  
5UeBYU/Q2AArYqVHiZ+U01xA2+a1Ct3Jfyowz0rfFUtnIjMILmzCmriFlym  
xaRxn2zmpxV13sd0pHNaEYr5NrPTuxW9horF9Gism1qcFuZR2s0s2ILwFqWB  
pOp/LkYILBxQhNRIHK+u8R6sZJBGm6sYV2R9/ZdWqCMIGdkOq7axvoyKsTPa  
DZrWJEARor7WUW2cUk01UjWSkrqB28+Onv0C3chE8um+BB7kY19oQA1c/bsz  
MeNkl1HaoyPkpXylqn2QJwGkxUy0C3T2ZjC6PHTlcdnzoleCq3u9ibNVOzQS  
136YVEIVLBIC/YPGsnvsEY2goZ2L8LYJfOhnrh7L4wT4V1bib8aydpBQ4Qd/  
A16VLZenDgRE/jc65WBN7/0dVvTDTpU+Xn9X90mG/4cOvLcs4E7g2eP6HDze  
sanYvyzLeoOXOZme1Vr76WjhzvESj0qST5W7iTl6AIBLAWQUAAAACAAGqzc3  
heAciW0HAAApNwAABwAAAAGdlcS5pbmntW9tu20YQfZYB/8NA7014I6yiD1Wi  
xAzkWL4kfQiKgJJWEmuatEnKlwb+9+7sjUuKsimXdlOakuDsUsuzZ2aHM7vH  
8bcsicPwz/29/b1bkqRBHB37f8UJ/AZWfiWI2BUDr0Rz2qad7ihK4yi46eKt  
+P4GYTBNgUJN4/ujKM0+hiEbuCQ37+Zh2AXgAzvqhTfRwSTINwFJrz+PToe0  
RYfCtZ9c4aWjaBInGUAQjSuvnmIXT9YZuxyvs3H1ZTV6EcZ+Bvef/SCCTuch  
XAXR4JcD750BcOXfD5w+tgAzX4TZwODtWZbl5mMR5qEZmHHcDM5xMLeaQ/qU  
kJs1iWYPAGwsQ4KZBwa2OZjl1oGzGyPmNlbnobkNYbUawyp3wzSYdAUjgoo  
yCMKx7KI6htaSjmW6CGc6DC8XwtPzV0VomRXRPRsRooj8k7nETA9/0zQ54AO  
73BA1amIjNqll05obUd0ayOaOqK5HdGpjega2jqrTsXTXhtxS/bYjObaiLju  
Aq+/xWZaEi5JRplXWWQsjgc2wmGwcSh2jVasLbefBctV3fspAv0A/7EOwA/H  
/gMF+nKEhW8dmPiA3Q1M6IRYscWCLMhCMuiOzidwAEM/msPolJbTBGcdxsmc  
0EgWgHVelFMYRAh4OpCA59QKEsM4iC7JnGJncRwO/eQk+hQOTNIDL1FGsnsR  
X2u9P4J5RvnaHnAjcSLmqtuZYXaSOPt+GcVT6liK+wNctJHONPAohj/Fabid  
R9H1OgMc1mV8Ez9akoHp4Gilwu9zmpsgK1hHQZaOp+GgOx92dzBf2v/7/K91  
mqWQrQgskRVdUmwHjECa+UsC8YJdQoc/8inoDkbaZWl2PeR22Y6h2WVJu+gu  
5D82LOYMni3rsKjEHZmyzdVsk6mflZqBttNCOEcadxjA+YqEi90s69Ssz55BG  
OoO/Dallp6tT9QpU9VqgYgz5MsKuRliNLJDu9TFtbGF9+Hft9ejo/PW5kL7Y  
CksLepoFavOWe5tWPkbek+TpGDBfK5I6eYbQ55G0Fel+iXTueO3hltR7Reo4  
tkC9f9Cn4xv1uj7TY4n7QZG7rRwunl1Ju6/TtnKP13M4yNOOxsjS3KkFsWmU  
GBW96fQLtA6KtN7Km1bJmXP9s0jfKUdWxYr5Q2du7xzCVR61CwGqGFkIRtXh  
KXm5RV5v5VG76FGNvl2k725EqGRu6sydnT26A3GNt7MIKZhOiXZ1GFd63Xkz  
rzvVwCf0i+S9UhBbjqBt6bTdV3S5xtnd5nGvRLoyzhV1t0j9rTzubo3zUunr  
leNcMbd15t4rOI3n7W3zeqn49SrvNrr3pt53dO9Xqo3pQrYL8W6bQjqjk69  
95pu15n39SqZD9KXwCpVzH5I4Cs73KlDb7UEvclSSOq0WpLb8egjOz129FMo  
B/nBw5/TD/0pYc4EeoLoAr2THsoMPGx+9UM8WuJhE5uqtiJQF1Z+ujrOB2H3  
KJol2Dc9EBzZnOJkQgMAS2yxjlpWJVd25C1x9V7CIQE9R1ay5bNW0cU3iebr  
QDSm8T22cln5OI7ietJyUUTE39MO/K1c/DzSM/rMc4JPKxe/CKmVi1u5uJWL  
9zajuTbiDnKxDOrntd79J6VeKL7Kum/Twu+ry766KNdqvq3mW2IZq/kmreb7  
mkeuVvNt0put5tu0R1vNt9V8t75azbfVfP+V11vN93+I+XKAn0DvVfJpUTyd  
1P0PuWXVVD835y9yY2ZJclVnXaYKmVwLEudxi3W4LsTHy9P94xOA0zhOsy2I  
/RchLujySUBTyQWorbCOEkkkntBlNiR5hw0Oabzj38EdXOCpiDOITfwOhlr  
e7gmOVYVvKruBxA97dUUIx/MAVilb5xoEzRKNihASr2EVAIjSk7t+UAIDeK5i  
gyqN/BSE+Ehe0GF6nnBByxGGniNqZwhp9jKRR/QFn4ox0k7IYqsL2TQ8ZpFi



aFdEhLCf9NOFw+DaT1MkkY+xSmPGsRiTd7FLQ3ARNoGcjclSdtjXkdyNyeQY  
DcgrDZoQ/xLP9EpbUYtl6ovFE0W+WtWS0QUdpK+V/cRBHpNdhVrC5qkpA8lk  
XiDKE9CmuqW2jKNTGOKYAIHvSaK7BhbDhziBD1gzpLgj6NqK7neW2mSK21Qb  
1IZL0y6qQ3+H8igo5rV6QXkywu8VW0nVKXr2rpkXUNsTDFz26BeeVjp2i19P  
Plxg+EqX0bv8G54DyezzL8lKeUCPF0KYgh5NcT3t2s/m60l+zMX1gTyeXQ6  
wVYHRWF/ncVf42BGPkSULsOC4l+28H8M/GMa/JJZjSWT2knuWQU9mg946ldf  
nhW+NLUvaQmGrXcG0RIs3olf0zIQBhl1oaoGzIQvR8rbKNnTQmAxMdo1tKjw  
L0/VU3SxClKgHz+im7cppnLc9kyXFI0mt2jAXDRc4vOUrdNhrGM/ii9In2h  
VSE2P7DF5pbkxlgxpchdz3+Vle4/znyv18A580dVqHa0T+XL5VVO/pTeHMi  
Alkiip3fZNeAfQVX0Qo/HVW4Cif0rwhN4LMdXDV5Sdj9A1BLAwQUAAACAAv  
qjc3dGolEnRkAAAAMAEABwAAAGdlcS5kbGzsXH10FFWWr0CCrSbQlkjGASeu  
MIMOClBgxVXXwFAj61hnE7T3MM62l0rYNqKwbrLrByiSRNNUglGCAwoOKDOi  
okQnIDDZOcGJk+CJu9EJa7VUx0bbsTLpwVZbbbTX3nvve6++ujsd9+w5+0/q  
mO6qdz/evfd338d91ajc2CKNISSpEP7SaUk6KLGXmp/afA3/nuHx0vtp795  
/sGC6948/4bAbf9Stuau1f901/l7ym5dfuedq2vKbqkqu6v2zrLb7ixb/PfX  
l92xekXV7JKSM6ZzHUPHHv1wX3v6gPh784XYgRfhe9aeTw68RG3fHAjC9zUv  
fH7gec7zCD0PHvg1fX9N7UtvuzWANGFbhSxJ1xUUShd6v/yxatl488/s2Cc  
JPUhA2uT8d5LRInuvOy5kMulb2lOAEODawxnZc9esx2/yk4rkM6AgHohlk3S  
MFdZgRQpGY4hxxWRpEkFucmza6ruroHvr45KzKA+ybRPXGWSdPPsu1Ysr1ku  
SRddJDHf50giBuZDV/NZmxSjwc+vDwGXqcBwNc5+66qVatvlaRIEYTyjQUj  
g2+RNHqNXqPX6DV6jV6j1+g1eo1eo9foNXr9v1w+NabKnm66VxVP90loeO9d  
rPo83Yug4lt/NRLLi6X1V1wD1JXdc73jJCCu7F40sUAI2iQuCbRZkuT/PSH8  
MlanCAFJil9dLRntv5Okui6PXIJxQvKG/MluOYYi3bLBvqLYTbccYU8p/AoV  
LQFeTUICD9qSQtcu/XNxyJ+Anud2rlQXTWzonFA/oYj6nfV2SrXSG/StV+X1  
dUZBED7XrS+a8PDJQiSvT09vvvUc6FdO6iXlalCc0EsWwM3AYF3ME5463RjP  
7Av5dL1oDhAYOeSLhilhf0RYJOv4GONWD7YUYhsaFFrk0TsHTnFIR/6dKfNr  
oaJZ6EOVuJG1gVMhn8H6CEXCO+5Op9OgggtuYIJ6MzX7YyGZs2pyTJ/PQpdS  
5VRQjobkqCanwLbBM8iKZHjHGqYrvCMANxCU0EIP0wsgSOUAwjRS79VnkIfN  
yKaT1HuRL7oW1p5JWm6G56G/Jj3LUA8559RzrMOhB9mYXLjhZjK8x3JpXweP  
RX9l7mFR5ZSgoPS6KfcJSI9l7tXkPv0qCpe/Cx+VrpA/yjMFgoCApEJFMylV  
+jSlxggcn1aFWM2Bo0xEqZpSNJLysxewJnp6lyHORPyt1tGn/wtN+Cg1fYn  
0dYRktu1GQSnQvcE7cBgeEcFAdDOBZ5hAnqnpzhUGxitA8w1JY6aigaOQFr4  
O0WSgES7yJzOgSM8F/3R7PRBvaSU6FaadjrSdLCAxkiolJv7p/+Wu7/bcvXj  
w9zVPVbbR6Jtb0jeLdyne+bMkfCOJeTibi6w+7Dp/h79RU5jzFzQ5nqbcKdN  
U3YLN9syXXfRBwXdcr3N4fpJNgVR1pZwg7jITszsMdlC8sUhHplmy339EHe/  
1WrrF21bMbnkndoSj6YktNpWTn+c0TWINeTfHpKbeLMqxBpD8nZNaQr5W0Jy  
oyZvF2leT48tmJJPjrPUbtSUrdQSQWoVo6ZUJRJUytSynVqMoQtGMLXSoJ6U  
zfevDnLf4+DT3KMr1SWzGo7WgHdxjGscBFU5FixUCvmk+oxg5VSchxRkDiOr  
C8kRvldU++n0kJzCe+joxpnqh/7ff+SVvFecJXmPwN8HEyXv+2dL3vAkyduL  
FywXOEbZwiGWjAcP2peMafVnF3iJDgaDG+n0Azimr5BTD3igx6CSHBqn+JB  
HywXseyQOGfyRaQEpbVaiKMHYyoXZ/P9m1e57xDiKAcr/ioHK2619Ym2hMjk  
SAGdF3kZgcEAU78c4fxPvGqOhIR+h7kU2ESqIgODOAxS1ZNEC0QvIjhTYiAw  
henJTRG47yo2VoDmoBzLJTWYXWo2SRkgJafctllEgxiWVahKrFL1TVqanlx4  
gois0YDGUndjEhqNWo0H8cj3fwfCPQcyQbj9QCYIPzmQAclwEEw5MAIijgh  
kG3BrMoJwYn9TghcUnxydku9sD83Bl/s/7+HYHqoCIPPdz8YM44FbMVCsL1S  
ktodYlobu59HFhAodIAG2zkIBZHVL2b7JLafSrF9Cqxp/lj1OSE55vbqUDt6  
FSVaKOKmPKIUHakRLTMka4kcJzIotQyGnxGDocrTIRJRd8ywUXfHDBvjzpix  
RoxuWa5AFkO0YCZ0JHTxwFEeoHd/l5Ky+jzcY9q3kvB4MQuR2/infkOAV08x

lxaLtoFosOcr5RB77eZiY8rpbaa5+rSbgcS2eKsJ7GL9qmVmUhozNEptCDF  
rHTb8dUrklRh3P9VOI3XVRIUE8TqZjpGTD8VTMmhi6qn8NncYmojpnmmpm45  
SUsSOZPI5mFyOA89Lg8XZ/HwR684PHSbfR5Z9PQp0+zTTJsmZUbd2X2pGEkw  
Uvgu2eh42ZqaKE+qEmG/AeBqMwIsE/jWR6TNPUxAv8MYHoTal9HQU0luaDyr  
NxXE1C+YkiyG8W8d2GUhuZTtSMKwnycvQ7JXV3r0i8vtxve3kfFhc1JRJgET  
zL6qrEMfWqWxV3BEwkVrcEBURcL+PWGYQmbg0k439pFh3NbG47En7G8Ls0FU  
1cbGURiLAo9oTAWcDcO+WS7mDTI1HKw+Jyx36vJBXelzh+eSNgzP/i95eGKM  
tSob6zhi3ShYDWRN6HKbm29gH/LdlvhSxBeK6EoGZztxLhCcsD2atRT2Uxcm  
qZUWNtRoQGOZuzEFjdPdjXFonFmZA0UYDIPFvrJfoDgJyiQXiuP38ZzVBNp  
JtPgS2ZiwyCrKhYzmy5mNqrYvdZKwloWlliSKQmqzWAK17HekXUNioUFol7T  
eolqx2Ko+GBppnKvGOsIZBo4iq1VMVzmzqzqCCtGkr5sg3oHxg0sDI3ugP/o  
JQx49+cWhFCDZYx/YnpaMNEalTGSTr2ITOsEk4ZMvW6mfmJaJpiSyNTjZtpH  
THM/N5NANpe56rBGXMmmuxs1aJzpbsShPMvdiIN+TvbxXQlZR+bM9cVevk1y  
2/z1XrT5gYRIcTYzpoabGYtdiyTt+miRS/LeWkGpo5ct1Mt3zF7szD9zmwel  
OfaZWEes1TBjnkvkWyL57mj+3TxX7euEcelFV88nX8Ce7/rMRNnG3OImPKLM  
ss3MLGsKa0Qzi3PDBetcyXokubD5OfXwwacWNI4eiBzK+LaAIDkhsZSeQUo3  
fZoniq+eZ1mSdY1663kU9H3q9DcDljz+1sXK7CZSrYD3YkdVbmYWBytJK6xA  
4W+4hYrhNu9SMu/AJ/Z9DMhGLNIPn+OyGZvUL55D2XuFbHyYLUt8ulwrpSp8  
/dVW4pU02qfZtc/xadaeWZYzq8mMz+IOF9xM1xLTfwimuGOXVFAzXpUTsPiB  
oUHFGIKFJB70xajNUJVJYHwMFpbiCsrjSWYm7ISNAJBFhmQbdnD1v97dbt  
3cN3tXkyVaR9ptalWbT+wx70+d2Pv8VA8OTs4JNnMzv4/Fns4J6P7YOCrYOZ  
8i9nkd9P8pcl+eQwU9YwW7PK47KXbXIHjhi3PGurD0QpklpkCjEJ41LBn3/+  
Ju9gWyfOz05nHr2Lm2v0V1cyqpX+X9P6d3LEywQHmDYoe2eeTB0llockRg1pZ  
PTGPytmk8pW/jFhlXWwqhc9rfPYrCh8Vxl7jQ3pK0IbKa7xDtZArxH+IAykJ  
IF6h4OmULwmDa2gcndvDkEtcocSwNRH0GUNTvtNjz7CSQSXKz7CiqhyloWgE  
IRRwvjWVBn0JVp6inRk1a4LvHrlGxXebGTjjnWeuUmVPhXFAZtafHG9qAXn  
VI9Sn1bOp4WFNV7z0DAmSX1XD41jE2u4CHdzut8wuSKMKypJkauHLsX3Kk4t  
GqPrNi0a7FyCSkT16eBfGPd3NL3F3ei07EZ0JsWgnd5uJ6aPh5yJ5lpQ8mcf  
ojptKze8vPYCXLVWvOxQbqm4OpB67pO3jQ+f4WdSKSwN+UFzyozvrMABNxxh  
8X02jRbhSRW18VqULWM+6A9m93rBAIkU16fttIct+sS2bdsAg23bDIHY4mF/  
VAQ/anLpLLgREXy3In6mRbNp6VeV/qCiqz4t6luEYbftT2Q9bjj7GYzrL/5s  
zVBzKjKOlIjjLNqGsvQrq8TDFRzVl9zHqVYx2mmpnOnMxuucQZ/QsJfCOduV  
eGiMGKue5oHHUsCO1PdpBHq0dVMzZBYImR4Eq4eB5XUJe3Mlf72LC2sorDFh  
TavtCvkieK7njwxN7Za7GAA97Esz4cB3lqLCqi1zFU97d/FV3XBsjJVSYOUs  
dYJFZyUSm75YxSTue/EdmM2Zi0NyLlzvrqA06sVPudfs8vxdvl5u12p7ndnb  
Ze0GymvBYM32XPPdbvpBtKTKfUGZpU6H6usl+jqHbjIPJ0SJ16PJXfhZ1aUp  
xsAgbp87szBVdTFWkwkqOIPeYPbDDR3qQfWIBVNG8XH/TvP0L6N2u2WneazY  
76b9eCc7VwNaRm1/EdESVp2UUWZFK0daZuG0k6PMqotVuNP9ydzpvu6XPPva  
XOk+AzfAV1lrWUjmRwvGtUKkA8HtyJLtm/DUJqvseCHbi7K9KDs0uVtuY/nc  
wb56mcqykRwiHH2K5682zCHCbsEEe9IOTRzrYAbADx6bZS4dYig0yFCnlaE  
rikavbXVNNjf4smBxl7D4GzRRocl7JABXwkSk3WloGtV7fR2tw1FuugQoZ0f  
ImTk3zc72GE90A66ae/vMPMvY6P+B6JFsh4CPL/DzM2MQ4tNO3huLqhg5wKO  
3FyQLTexMeLOzQU8Yee4GzFh5w1TeDly71bHc0Ht6d1yAgUwZ6BST6ePy4kw  
4gF7RXypw2E+tp3NPeuiMHVmZPpmosIWMmaflrKWO+u389chec5irRelh9ZD  
7hkeeuwV7xcrYsdvd1UjUKTayYGdpQXe9ORi6KK7CNTID1vSbfzVUmAPdAR7  
COOiOmLoliQDGmyLP755BPNRQeAUfpr7C7y4FwBjjY56kFJSF/SAsgAeKQcW  
I9XnWYrUp+zUL5G6xEatarBRv0BqhY16jY3KzHmtUOJmo73vbYaFPPA5uVWs  
ggvF6aVTcf+Rnjz1E0fsXvPY5Z4lube/tdxqlKueYhPS5y8xxJwjiqLtTzDY

WRU/v9xksOB+FFigxCyJzgorAp9Bb7YyNGUUjainS3IPF+fu6Qeunj619+T0  
si52JWzOYdwZDz8GQs1yvIIAS0+WhGFRYxWRYL9JaJmk4zB/ISwzaB0/Dusi  
v0/gWm0NM+e+blnn0LnmOzSjZRsbSiXoZtiv4/7NF9OnVRiinMdnHxPWSHgc  
bQr6w3l/zZQJV0e9jLdPdCTe7/3A2VFvWO4N+RKujqzND+sIBn9XGLYA+MOs  
qLoBNuYSzIDGjfezcQtxexQKc2kpNsr38/d0UXR/K2792CzxFvnVmVTHQHAn  
K0qHvIBk52vwoJ6FLUtlSSahbW2zy+BMZqCMYZcxUMYAmeqxUF5VkAm7yQQ5  
ikkThaRBklFhs84i4a0SCzaiddegTVHMbsFczJwpZThQHFZikE2oj6q4EY4yV  
61h1DbXahj0sEAmjkhqT3LYU2pYC29gzBMjL/EOD8Hw/YdqaQFKC25pkpD0u  
kjtPTZsayXiwg268fBSjPvVnMiPh9tAjfCylQpJ7eHh+4Rwen0iOgZgw1nJh  
2LgtLHRLv/G4UzrukBa/06gwDj+OKVel+mYJfQn171ag6YtWkN3Zhv1j+ed  
SJa4LPjYbX/HJu58Ql2Sr78PtusdTrQtzv5OSsNMJyZMTQKmJjdMvzvdhGni  
ptwwLXd1+xe3m8eah4HpApd0LAdMZ28xYWpotmAKUNgCOcO2tzUvTLtanRYM  
ue2f3GzBIK+/K1vzwnSjQ78/jwimFgFTixumKR4TptubcsN0eLOz20G3m7Ob  
hoFprUvayAHTqs0mTAOqBdMqCtuqnGEr2pwXpq8ec1rwkdv+O1ULpnz9bXks  
L0wbXf39aUQwtQqYWt0wrRlnwtS1MTdMZ7u6/dDt5sMbh4Hp2KNO6WgOmF5/  
1ITpso0WTGsobGtyhu2mR/PCdL3Lgg/c9ncHLZjy9XeyJS9MH7Q4+3t/RDBt  
FTBtdcN0tNCEaVowN0yrXN2ecLsZaRwGptku6UgOmM5rMWFqabRgqqGw1eQM  
26uP5IVp7yNOC95z21/WaMGUr79rHskL05Wu/gZGBNN2AdN2N0x/NdaE6V8f  
zg3T65uc3Ybdb17+8DAwPeyS1nPA9G+bTJgGH7JgupvCdnfOsHk35YWpyGXB  
cbf99zxkwZSvv53NeWHa0uzs790RwbRTwLTTDdN9BSZM/9mQG6bzXN2G3G4+  
1jAMTJEmp7SWA6a+JhOmRQ0WTGspbGtzu22prww3eSy4B23/W/XWzDI6++U  
mhemk6qzv/8aDqYFQUUP8F8071N5fVWBUjs1xQNFmvHLMYhS33G5T1/Xj4Ud  
/51TDxeDL3r/9nNuGftXF0oPIGbMMuMnKj9Si1q13A9FWxJ/oV1Fn3ISf+Ea  
tyrLiYlpVe0x5tNDYVCOqHKEvX3C98JnheSU7QxOn7/mBJ6AGKFIhfCZcfCw  
sk4aQXm+eWNeVBs3OqPc70Q1ZaQ2jKSnCzfmxfM8V09/HA7PmUHF/IX6e0EH  
nmE/1loxtbGeBmRM3VAvBqSuRKFuN/ZLiLR2XNb0dTq+g6NYciweCgosMNP2  
ys2CkgAotCr6IBMIJVTXMSPxIMUhy1syOeh07Fhux2ynZ014evZGLJ0Wp2d0  
HrarbCL+/t5xnja3k8EvntmxV6ruSKlx+DJQzovIXoueUs13b3b+OcbG7Pyc  
vsSoHpZ+g3FtNvrBZXhixvqrTge++5bkXbEL/JQqVgRn4HddzBuELCc1hnH7  
GkkKtEOzcVEjHwoxfjZty4m1Uxmp7F4ABczLicso3h2ids8id7YxukfJqTT  
qhyHeWdFkP7XLslo28XsOfdtz0Pxubhln3c+Q3qKAarPJUqPRIH11r/ekPx  
pCdrGLHaY2yYANKMBcP0DDz+QU4VqFuwpXvMzZDugevOKvA2K1HjnCljgl0  
z5W8zXK0ghTpoMim4a15TAMKzC/CE0uS7je0QiKMDaRRWumvzCa92ZTuN74E  
gcCVJN1IPMGkCwOXzQNpX9fSbNI+U7rLOITSc0i63fhHJI0UeP0ytLw9q+VT  
TOI24z6Unk7Su43zmPS4wKrL0fLdWS0PzRXSu42rULqUpFuNyFginBY4+wq0  
vDWr5U+a0q1GGgQCxSRdbzzNpD2Bw1ei5fVZLfeb0vXGEZSWULq5BjLJWM4U  
nB5Y/rcSb8tq/3eEDiZ2L6pJeFHNCnw+l6k5l+ApBzVbsC2rI29fKtSQ2FxU  
Y5CaG/D5j2OIfGZg30JQ04BtWT1STTUkFgOxQITULMbnJqamOFC+WOJtWZ1a  
bKohsV+hmn5SMw+fZaamJPB9GZ2al8up/75EqCGxm1BNF6mZjs/fFBB5PMuu  
hum5nDpgqiGxKaimndRMwudXmZoJLM2oLatTq001JNYHYoHdpKYQn9cwNV6W  
b1sKczk101RDYkFU00pqEjhfXMjUnMUSrwHbsjp1Yo5QQ2KLUE09qYniMxZ0  
QJ7I0w/bsjr1hKmGxL4GsUANqenH5yeZmv/h7frjo6iSfM9kkg00JoHw6wB/  
sqcQPFGEbcMeCTKKP/lxiWQVcRFd1IHDE9mA3h6R4CA6jLPqqZx7pyuswV/7  
A07wVldx8wuCLu6GEBA14CijvjBRsxqXCANzVfVev3493T1Jdjn9A9P9qr6v  
3o+uqlV3TNYbD+85zioayUMsaEyDi4gmEa8ns1h8sX2a3QbIF/CENsdGulO  
0sz3k261KGczkRFINhX5ulpNNhXr9FdFsmmGn2v4ZJMwZ5gP0svY4PvIRJRy  
e5BkL/o1TU3EhCgzBJ6vwdMdkfOFK5JUGNG4ivvClit20y6DH1tA9uoZJtm7s  
M4GeTqRMDx32mG+2mfYNBrTSYk+TkSK/RLXYG8VesncGpFklld/nzp/zJgCk



hIxP7oVPQTDx0RXTU+U+LnZWM83Nj6C/+2sri7B9lo4mNDLDV8pJsM9Zvujs  
vFQ5e2UwTovfAQZrp0p12aMyHra2WiwE2kqYXy+G10vHOI1vkSfKZODE4CWR  
Mv5ZelaJv4xSYf1J6mKsKRIZlyZvtiGvYMPTzpWcQkdRZvh2zNRTY085zKec  
DyBFfB22SDnvolx1DyLH1cF7UPj9pXJ/mDL6ytnrJrNu9ZfYDSuN+XJivM+x  
V4u8oXaPEDnEPOIS12fmd5M34i7vS/c6re9Mp/Xd8GQ7qgGQKI9vn1K+Flxi  
c9NBh/9FHeZb/VeD328dH7/yIbJbTSbH9ZT9I7GuKkM9OAGNsvSexr/IY85R  
VJmJz/KsTPb+SXv4tGXZ7Y9xHcZRplboK7Lbq0mF6VkBVCMFxfqKHClbQUAP  
422xh/nNwp1VE9RbBXWlyqUvq04IlgUKkB3LUZ6Egh6fBKkfDY+WKjC7Cc2P  
hoG9n03q1O+h4j568v1O+1F5midI9evcPt7WvtbSfp6lHfzzUpt/HuoYDsd5  
UeuF7zeh13wNty50nIKtg7c6jqZS0Y04jWQCkcZwJDGwSRq2t32L/r2eboYc  
1rO39ggV1r5sxQSI7w8YT3XvvrMSrEraeB5SxjOfzjfW8fh7Hg/0v7I3/adO  
yP7Xiv6nKf3HTtj7f6i7x/6lFveBJlry3O3f1kBPX0KHffTNJPKsf3iHtqn  
Hdk/srYos3634PWRftbEt+6vzXmqLlJn43GkL+ojPcf/Ra/pi/plz/Gf6TV9  
UR/pOf7TvaYvykz/Q2SAp7D0Eth+nfhXvy9TqYLOuhPeyl55EYtTZcVn73j5  
E+55qt0oLnKRB554ogEmnW/zhvT29bw9Vodjk7IEidEObDd/Q49KKOYB3wZN  
QRmbfDf3Rs2OFfpVKRt9v0z0d9np9y13o++tfvOXGW42nk8EkPX5pIBOZ6hK  
11bkYvgFuDpT5frUgH7vKRNr218kQFgWvXCWP+dnT1BPnSBowQx/qDu3CiTt  
jJT5Q/W5YfzEBfgd/7hcxlC6qTQ/CeShn/q0ygsQhry2TuFQILGkzs0f3cLS  
vZKuMvbhMj5s7CYZnuHDHir0cBIYU5y8gdTn74dXpSsqUhHjafUmDitP/cX  
YR4GwDTDBI8lt8bmOy425BEsalsd9Z0/V0sh089d3q0nCPVCi8sLrscOXZr3  
En9YmHSdt+6Y6bW5uFzf73LQ92D0OyIIHbg7z51vRrQCHcbGxeFRM+YRmgKd  
2BylgnlUh1p+m6BjH/2N+0EG3Trcgm7q87I5svF83pbo8fmk6SSvs5R9RpOA  
o2Z+5dmz0oemaJWjcWKAp1gv8NZ1e7kKKWe3ezi/fMEGEzglXWwTgBUG9J8s  
xotyGAhVO3bxnrsl+T0sWe02R1EW28LkQtM6TqYstpEgAzGcaXTkCaqP8R  
fM/kSh/ehnt61PcoUIaLdfv8kPyG98sfto1cf6iel5UeaM46jMdp9DQLmuuO  
eiP1ERlvjdnWvww2wLU/vC58a6clu9L6WSKtvA4sl14/Yz5j33UkRnD/uaOc  
naHRiBdpmEdYihzGot80by4XF+e3yq9VDgaUuhifQXYK5xPnZ5j/CLq9yVVV  
/mpoWT7IGDk7yAkTU0iGlrryRf33PzLYAzqmK1rSza7SSFPRtlYH4lrAl+7F  
lrK0rWHMF+rE2IPqWBA41m7na1GWqsdkiAljuw/bbfsVVR/GDWgWE4OgPwx5  
u1ATE5xUilK8cJQv5Uf5dlH4+n3r5K+tqtJpuvJo+bZw9PYHaOVgkgel6NWR  
aD6frQoWLeigo7IHSscsbYDBjqKg7tWUX0XTfxDFK2TpDVP76U0w814hwjDt9  
ibN5UiriDXvo3cU2heZdommz6AAzX8Hnf0w33cL54hNwNZ8AmJ5QVVJblkOD  
OD87bc5ov4xqCnTIA2w00MU31Doigz3EQIvdnmXZMLbEXTQk/wk+Cz4+C6iY  
+JtcDE5L9HoX3lmHddBvqO8T/dG41HvCaCrivGgyC79pFledBQe4worOZadS  
KlnWdgAelSri4bzETIM+WK/cPQ7P2wTjeWvGJyJn9YXoawSalyXNkVK9oMwH  
z2xhhT/nPp0May4uDsxwM2iYAthB3V4SvpliVyh2YcC/fCG/UY4wpKT8dR97  
+UXB22Xsgn7C+CAIPFTR/AfxRZJSH69b58Txgno+iRdy6ii9XMozHuzAJLqX  
WCruFtAnEqhPdpZAp7v8ZtR3H/wRLvbxLkt5P7AMG7MFbTO5/R2k/ZCQ48b5  
CHmf/Tluex7OQ0kze+tbVMT7lxX7YXqWg0uwPxzYleiH9q9kF9zNqtgVrmiN  
BFpL2b1J8bpUjD7H1SY/shUTVqsZFfVwLkw4Alu2M4z7FN+UQjvbVsquMhob  
lyWN9KJWmzm9MJIPfKK9NhKoBebEWP5Fm1g5K/VyAwCS4DsATDtG75eReqy8  
w7SOxyQMCMFEwy0iM5uzSi6jkSBNvJVWgE86ltL86U7qNh0fUH6p7lfbrJl  
3gQ4Sf6sQC4VH/gLS5KVp9OXw/xr9QdBW+q013XpfiTeT9OYaXi+ibWJObA5  
CwP5lfh3CQUicumJ0mF5lp1CbINiUoQ+CFZ5HrTnvAkayp/zpl64m3hGOHTb  
LN8f2GX9z7AP2GMVjB7VPr6amU9vYXbBslz47Eh4FkN1HgZ12vD5C6BVZ0NL  
zptemAiQqbC+EnQ7XGv8uqA+oSdeh54KAvkWfQX9y6/Q6DSPfMhdIEUBGfes  
+sJA191FEYzL5tF8d9NwQVVUdJMo6pdsumEoyzAiA5s+cRodEEDqZGJzJDDc  
xV6Vsqq0XcdUsTeOIWbQPHewFWPYNzaTsukNV3dqy8yID80G3lgVn53lylWOh



w9+plaMoaZkacib8f5EnNWQW3q3AqStPV8WVoE6TCW/iJaHf0DdhY6Q8xrMD  
QqZoL+eqMpE8Z0YoppWzScdZG9IGwhUM2U9WqZvmo2vpmZGBdAM2ErVkgbNE  
f0Df7fM8Yt70pVPh/xNbsD8wePvgZ5xCTd50dPPADAaADa0wkUdA+t2D/++  
EDxK0fxZoOlxpafT6UxB/gHYaSL0RERGB3cu+jYQJ148U01OU/P4r3QD/Bf  
Lef+ECkctC1gTALxUC3smfiqqng13F95PWpEdvcRq2mOgUEldR+qYlol2Oiy  
N84D8MN+JAB1mxWIP4tzJ/fAM2Tc9ERxYh1+fIZt4p8aInkiA3G8WWCa6Q9j  
UjrDNP1Swd/IleS+M9Z35gSH9b3T47S+ZaqzGgVHdMoEy3mYWLsucMCb7own  
zlfkF8M1eIB++pQsbil4aoThX1BG9/pJk6GhHJBoA44fNSj8iv8sYk0Y+8Qa  
kltVtYn0a6naX8zpf4/klir9PO+ON8YZTxnn3eROGFUPilfvEYiiAsC5kk7k  
YJa9qdlp1gOcl97vrHi29nM9ajv4I2fa/Zey7o1E0DR0mL6qMcGw1UP1PvoU  
BShyf+Ug6fSvvZ775K38LEAOQW4Zu1Yxdg/cZj8LmPoU5JlWuU5ep2jPA1H  
TXmO3NqDPEUZ5NGt8vhD7aCt/Vle3llWYqH90QHnfSHNPi4Nfb0DVmSSIs1C  
d2lInnT7CzvFdr61vDuvxMeuyKV9mYv7crz1ZGnhd6KfkJEe9nWuO01LN9Jm  
e6h2vrP9hvm9xTa/oY4x4AjLhwC8nwnUpLv7mCIKJL5y0fyrMljzs3sXzVY  
CcOrajTpTIE9zcepVHCBKI957SMZtY5WtBLfZiPvBZWvIR0EUu6weCfWos  
rfPFRmPrTp7ldpoub6KdOf5UNcvLXsl2xd5EQE0fTJVvniRR7IAKWJz5TI4  
0C9R6Zcg/e8CKj2sx/TWjPVOvM6peSYuSM7qr7H2yKhcuJfMlgrWLXHSfZT+  
5393XA6d0Z/h4uuVNVoknLKEaUjMukac9WEFZqMCc6OyZAUiy9Qy/eIDgvES  
TKMBM0uBmafAzJcwjSwOnLKo6QEOk0UwWw0YjwIzTIFZIGG2sqcRhgpYSmpY  
EYfxEUyNAfP74yZM82USZtWD6lasYdci0hhR6fTXg4SUTUiPG0hLfkQ1JIJx  
UMI8zvwIQ6UwJavZJg7Tj2BWGzBjFZjpikAPqQKtZvXAzEuveB3TLRwMYzfR  
J/COgde0sT7MmCKtdgA4/xLEa/GrIMaxPF0wlug4IUvVgDmVFWPKPJxiDMQ  
kuq7eHHTHw4QZH+CnK1ATIYgr1ZEXCLxiP/PwC8qd6jK6U6ON4DwZip4nx4z  
8ZlzTREFv0UkiBUlyYvlqOjPflc8ISAvViAfUyBfNCGLKyUe8Y9HvNVmxdSu  
NsLzE94YBe9SBW+OlukTqogE8R5AiA11KoP6Nw45kCDzFcjOoyZkP0XEeyQe  
8YcRr9lsoxrL8U4jPj+Ct17B+99LTRGfUkUkiMklycySqn0fEGQOQeldA7JE  
gfyxCVm8QuIR/6cfoL0wa6vWcLxcwosreMe/NfEGKyKuV0UkiMcQMmbWWU3k  
kHkE2apAvqRA1s4wlatVSllOqshWs+Yq9j5BDiLIRgXyOgXyDgVytQpJEJ8D  
hKhIve/XGv5XW88LsZqqN4trZ4PYLFPFG/GBmt+afmN5OVb80tgb+bY7A2A  
dGKuRcO62CYj4NyJJWM/j9MwUWq4w74sV92ldJOaWZ5P5zrIY+S7+AcE7Pk7  
kPcVd3lr2knebEpe2WYhRiVuPiH+Dfwyiy6nUXwaLr10OYFN45ceuhzDzueX  
HGo4O91cMBq6Zhu66o/JfAgYJ+3vyYccGcD5jfM9OKwzz06LNwzW3OIN1vNT  
IX1N03Z+AtE2nLDlly+7wW19gD7PYbmV9tSQVlv0ndopvUDcvlo+OMSTy7Zu  
wyp6uAwuWablstG8Y4Xg0HFBkM7eORRat3/P+CT+JmQ/OEdhJ4IFBn06ewxr  
+ld+32D/AtmfUdmJYPswQfDq6jzxcX3IPYAFKGD9G0JAuX9jlv88C0Rpm+9X  
H89T6+3/aNvP1nr7Y0Xg4qE+YL+n093/d73923v7UG8/p8Sx3n5QTC09fOwm  
ZosHS9Tbjzqs1Ns/tzeVwocwWPS0e739zdlG7Xecbd+rOKtBzp0VvOdp93r7  
cyR3K3tgr+KjjuPcvuDmp93r7T/xGdyN7lq9imva0Urc2cF1v3Cvt39ecm9l  
p+6VfmQN+y3n7hf8wXr3evuFkruGvdNqOH3gSy7h3KcE4xvc6+0LJPfj7OFW  
wx8D//Eizq0HI8+619t/nmVwr2ZlrdJVlofL3sloH/woo0Z6+1fNDA424BW  
6c6Qk/gShxkQfO+5jPX2t0gYYmvY110O8g1/zGFODVa/kLHefqSEIbYVe6Rb  
QP7gKA7jD+b9KmO9favXgCG2SxukK0Bu4N4WghkYPPKrijPX2UQIDbF+0GMcV  
7vr9jMOcxneXe739ZRKG2J5vMQ4Z3OO7nMPk8G3mXm+f8ljq7ee3yBMBexka  
h8nl+8293v5VCUNsl1qk107O3Wu7CSaPbzz3evu7JAyxtexWnjU5dEs5zCCx  
/Vzr7cdJGGKL7JbelzlxBRxmsNh+rvX2hzRLvf3M3dJDJcct3kww+WL7udbb  
PyVhiO14s+ILZa635/GN46Rkk02e9Yd7rn8imgz1TzWHZf3TE/IW/4WqgwpE  
I4MzsdSAXjVSSIH3fB4UxB/WTW/UIq9zfdNfyzL4Ezfb6Xc40YN96rDZJ0u9  
zJFp1noZPIBZL4OviTrXy9y706yXadF6Wy8j5C/eicunR30PKiQVav3K9Hyl

fuU/2tZrV9ZoDvUrZw0TXmQX2/HNSa5feUUMzKI+BeZb29dzfUr5jDTPxFKf  
0urlYXvX+pSvr1F96cz1KbcfoGityCdgPt9Jvu8+n3+GGGTv8vIncWpLPn/g  
ULrnmM/PM6awF/n8JzyCthf5/Kmf0olA5vO/fa/X+fx5RWLNY5ny+ToXxjmf  
X2g0uuTz/6iJdns+PzefPxBGPr/5uBnErylxyed/MFg8Rc2s+quTks+nfNzW  
fOM8puR5HibZ0/NnRL/aiX6ll70tf3ePoawNPGC92AnvGme8nvJftvbPemi/  
zqO2Y1pVD9XCrsCfGyss8f/kNFrJOtpnvsRHafJg/sv+/P7N+aYbSBhbvulQ  
nqlrHrjKrmus+a+TKM/bmqM81yryHLmyB3mKMsjTt/zXNCFNWv5re64pzUJ3  
aYQ9o7LfRT6WitMDZ9QhDKLohZ+XnCXXd+ZkUUXaeObYxhPqyMdPXst8U4wN  
L6Z80/RgjTgkrmpKyzf2IIP0OTGbPmm55p6yhsp4+k5n5M7Qw7Bgd6ez/ms  
IJ3eJBhvTS3JdpltLo/w9/gHOQpsoSdP7KdYrDBFqzzdfCRI27wj5JKkchO5  
srVEZ8M+oYAE6jK+HtPf7UW+af44nm86pOabOrY75Ztui5sBzxXnwzh4wNOS  
b/LuUI7wG7c75ZvOUGAmKTbqvun17cpZft52p3zT/kMmzBfjTRg131S5XTnU  
D9vulG96VIF5XoFR803nb0+Z+abmRqd805UKzHwTJj3fdKgxZeab1jQ65Zs0  
BWmolpCab3qqMWXmm6Y3OuWbXvvYhPlzgSIQWr6pvDFlyTd91eCSb1qo4K00  
8dLzTd7GICXf9MsGI3zTCAXvAkW+RxT5OMSmhpQl33RNgo+acdHJmTbOFPE  
tHzTTQ0pS74pVe+Sb1qu4D1k4jnkM/wNKUu+6df1LvmmcxTlqYqlafmmN+pT  
lnzTjfUu+aY9ZjiOtY81RbTnmxbWpyz5pv71LvmmagVynQmZnm8aUZ+y5Jte  
q3PJN01Q8C5TRLTnm3bUpSz5ptvqXPJNBz40lb8+zxQxLd+0vC5lyTcNrXPJ  
N0UVvGdNPld80zl1KUu+qaHWJd90iQJZqkBWq5AE0VybsuSbltS65Js+O2hC  
Hj/XhLTnm6pqzXwT1178nfmlofwMaM8v2eyLzNdgHLjJkl/CX31pMpMsD09R  
3RHVF0mTZxWzq/WFDvII+MfL4j4yAuf2OPzmy3x+X+3yW+Nz8+F3bpoMRtd  
rFmPwPbgPKjpPgXnef8tDv3PDpesN/2I9axlkmMYPsJDGutxZq/xiBh8xfom  
bxwD8G3CjH/vTRGA/5ff2ALwnPfQ50RB0ffLgTrYLEz34W0i+k6s1ug7Z31B  
srYyP7LuFOZ60zYReidWa+ids94hWRvZbqAO1goTXbINxN25wFvtAl8kWbey  
dcj6qgi6T90mgu5c4Bq7wEc6DNYaNnebuRsD622+pNxPPD63jWY/2eQJJnqO  
zxFNhvj4c0SMz31jkCj7/X9Stv2+7p/d9jvm9+z0tznRY3zNYb8p8bX/HGuN  
r3FBZXYnm5RObE6Lr53+ihlf83r6EI+z5FOH+cQZPsne+Nh8dtPo3b7P4fl+  
mfct93ic4/tkj2YJKbrY5l+/w3icsZ67t6CCdHyfTNvfc7zul/+Upqws8bq4  
U7zuzg4zwHLpNFUtq/E6jMc59f/dx+Pu7FM87i6HeFwVv+cYj3u0D/G4T/oQ  
j3uxxRqPW7ij1/G4P40XaxrLFI+7PIM87vUe4nEjjXZ7PK5a4w+EEY8rOmXu  
l/xLXOJxVwkmGGjnwZMUj4PdPYbEVOoigtuyWXXWoj6B4XJdm0CtXrS/ppIP9  
u/PLxwpeTR/w0uN7T2oWe+BWX7/cpb6ej9+pf+d45MRa5UZFL+KDafqKvVrA  
N7ebvjoJ9f2ffl3x+MWjaUNZ6tHV4LHt3/frtus8cGTKM/75znKM1GR593J  
PchTIEGevsUhrxbSpMUHnyZNaa5wl8aQp8omj/BXwU8dMZYHkX4Aiyz9z41b  
rGEkoDu7hTuurHAK9rfeGj1q3KK4oLdvsUaPgCm+W3Af/wfBrQaN1mxRvNCx  
W6xBI2B6zuD+g8GtxopmbVEc0cTL1lgRMAUN7IUGtxoiGrBF8UV/8711RARM  
4wzuSw1uM55Tw3a97BbZbJDPm/v5bPnFzv7ez+37xzifxe3ns2+s9X/jens+  
+8rmf3460UEeiq9qwSXC034fp0GWUwXMT4zV3xM6hv/E88zfE1o8ihxx/ptA  
R7GV5Zm/CTRxtNkqOyfQM3HcMKq3QKeVRkExEbPyEzXGz9JUpp9UDMPh089B  
Wn8qJklv4smfimEHAsz+UzExzhXfiomRr/82IVfvhA/cwJiXTBc/MRT5/+x  
96zhURTZ9iQTGHAGlSYQETFAAuEhRkVBARMw4wYug0kkyNPLfmDMRdxFd/JS  
HkkmcRkGWO4nrojckwjXzV6Q5X4EGVQ0PDRZjBLdolNEN3CjKUhcBg0QlaZv  
nVPVXd09M5mgfvvnOl+qU49Tp6rOOV1dXXX6HPTwAq/sOg8vXXiFUVyjqOhs  
iumPQey907UG0Bldt3DbfKrrlnayawAuhhn+bMXMGOBHD5LtmcbpWmD6xVF  
HnKo4GSgJy3dTIQGov1Pr3uepfpxB/aCvKwO/DZ05W95TgKojUWfEUy2Fte  
162WDiazlrqwt7wnWd/SZakLe8vX59CGJEIBzZyPNzR7STKYCd/FKwc0c/79  
7frabbrwsz5OfbJleCbr+DrhkOb0ttDMqjA0IPvjP1vGSGpZs5DtRd9e0g2  
9TS092232LROYdM6I5s0Dm2mjAjOpo1j9c1eNA7TPKILNmUZavuCsGnqWJVN

lcMFm3KRbMEdzJy+LSSb6m7T9+CCsf9pwwWbQrX3xG0h2bTI0F73/A5tVNi0  
0cimARaVTVsSg7Pp3Bh9s98Yh7kwsQs27TLUbg3CpPfHqGzqkyjYtAzJFtzB  
zLgxldk00tCDFmP//yNBsCIUe8dGh2TTwdH69s53i02bFDZtMrJJ49Dmu2HB  
2TTV0Kyf36E3hnXBjRohNgnCprZRKptyhgk2LUeyBXcws35USDaVjtL3oNnY  
/8tDBZtCtXfLqJBSija01z2/Q5sVNm02sknj0GbG0OBsenmktvmvjMOMHNoF  
mxYaajcFYZN9pMqmd4clNoVyMPN1Ukg2nU7S9+B/jf1/alhgU6j28pNCsukJ  
Q3tnu8WmrQqbthrzpHFo81/xwdnUNkLf7BnjMHPju2DTG4bajUHY9NoIIU1x  
8YJNhUi24A5mUkaEZNM4Qw/+bux/xa2CTaHaOzE8JJuODde31z2/Q9sUNm0z  
sknj0KZzcHA22Q3NfmEc5uHBXBap0IC7IQib5ESVTU8NFmxagWQL7mBmc2Jl  
Nq1P1PfgtLH/psGCTaHaS0oMyaZbDO193hWbtA5tvkzgb4E6hzYfvQxbu6Ed  
2mxIYD3zd2jzDMOrc2gzT8nryqHNFAUIHNoswcrPdWjzwiCpG689R4aF5OqB  
YXoqe/Vc7SCju9XSnGEh+Wk3tPRZV/zUOrTpO0zHz5AOBzPewk38wA5t9g9V  
eGF0aPMHpSSwQ5thNyMdAji0cQzVD+xU8IFpPmRzxJmiyPflGoc2Yj8m7gLB  
j5neS5LE8XmQ/RgZLj7NfKxDb0nsx3RCaZtmP2bHDAJUvx8zx2Xfvd72tsu2  
123f7Z62wJ292z11AVL21MK33bbd7vRFmLeI51Vh3hLMW8LzjpHHNgP5K07b  
Kk4trEGIXIRg7xPkwSEwW1bmdtA+5UrRYDpwAhLS4rJ5/MC5IFmjYXgeSuVJ  
CEup48mUY1MxYXZnVzqPmHJc2bU51baPTBJimYNY5vBu1eXgrpHbtjeDXPo1  
KseCI3OvkZcV8Vpe4qy+myTdJMEeS0cm36DirAUE9UYEjwdC0BwHCL17snAL  
RiClodOFecHwQAheQwSwRdZuRNBoRPDvrQEQPbanDOGKEUGDEcHOQAgs1CF0  
sTGIEe9CEO+BT0O/Jj59ybF1jSjQwtAumllCPwbVqVaeVW3yXtCc7Gdzc7rw  
OK6WsljG4YgSnnYKYmw/Zqi+H7QS7bL5QPvDJ7FOqvcOCr7d4kq3orlMK559  
dbinWeTYGtox2PVTt/diMnKTUEprMZQG2PCyxVHSxigHusrxHTtHF7aR8NAm  
RITCUX12osoN0GiAwofoZO+JlwDEZ2IMblzQc3xyJ6i50jAotiJGuGbbq6mUiH  
nh5o6Ee7VXXBj6+6/MdXLQtWIZnaNfAkze2DLJhs5ayMcGZxVyWjP+nSweDN  
MYq8vMoRqQCgrGXNcmvsdAWrPwPqVwWsP0dbf6mce9Drf64zyGVvzN0czWyW  
LY2Hw5nxYTCdNrtDS67Vz2D9rKjpc14bG6BRgc14tmCqbjewm1uZ1FFslx  
kxCURnoPgMm1qRYmVv7W6/WDQy2R6VagYYYVTHbFBYKBH1SCAaqDEQrvxqIW  
aDpJxwi9wsbOA7TvdEhvN4laEXBUUzHZcONoLYvJsZ5GZqtIs7hXbCb2opMI  
Wkhsh7XsRio599raV46kcoVqKfSpJQnle1Ad587P4TRAjm45bJBQhfdybKVx  
RhmkmC/Ylj97br8jw4OTmXwF45A3COEQkqGZYIfAFHtgPTrFivmV1F31P/+5  
ib0YKNMp18+x6P0BWZ2HTXjyKLiDjW6PVo4ze9Exo/IGYNdEm3VIP+Yag6bW  
2i1rrGEtX1lxohAwF2dYsNACHxnp5vfT+skS8xKk07DPRntefFUJU5aFialB  
/xE/dzTo96cLpbv+2xWtpGyDvkaAe1L0voo95X9fWUH9xU7I2nCNXh8BKxRx  
ZsVGBQEbf3MigULAhYsroYr9i0I2LdoCVesXxA4vGtgyQhMzilfhsP6g1QX  
F9MOMlgT1SZmQ6OV3bZWtMDokxxwTAQfGsTgOaAZDsrgEJmSv7WICZCkLuKd  
rJ6yhNUI1VOXYQxKI/NSfKo64AXC3uqChRXBp52iNYwFfve3+tLr9EBXpciy  
UsTWWI2CaUlotuInFIIXa1/B89Q2oNx/bhDxoRFQpR2r4G0jqjyiVkkmT2wQ  
8QtmaNLCIMPgFstlUhw7Mj4mBeDjIDrHe+GeX29vJlc2iXNue6PQPbQ6oADV  
TKGA5CuoGHqhrzmvwhe4vhVwB/4b5iWQLJpHnxSgYMeAnnqP3qrJqIDQsB50  
chjcwDCuhgfJdNwY4CVRgMHudU1ZxDNWrwftHK9r6jlmryobHIUnMDrliaEG  
6X2+O4MM0w8ymZRsnw5yEnlyu26QyWTdsQCDnETuNmkGOQvtY/OS0dv5Ijfw  
jC3r+CCXBx2kZj4rhvmsuTDQfNZP4i9CGT71RUi3ntzL15OSQwBo5gs7mJSc  
mGlXJCgzM2iVfdCDPR5xUUBvM9hGmW5uieUw5ObPUB47yKv89tBrIAn81XhT  
wJJ1ClvPgrsli8Q67TbqCwTtz8QQ/XF/yvuTZQ7SHyoyGX4ik+IsTVD0Aang  
eClzeOsLIUWbOgcrVi9oipEDEawPFCbT7DxiBhU4UOKzuvuhRo0e3kks+Hwl  
PqzGtKRAXWHnopjok7hX4JnW6FzZKDI60/XFx2dc9npYk9ejQGTXu7IbUBdu  
dQTFfIFolbxJXcoQvjTxxgbbn1kzLlSdKBfamtiyoCmLSLzbYGGQWbbWjNqCX  
Kb/R/i1XKta6QYWvqWWkG3VfSCaJ9aC+DVO+I/T18ljQv/lrtMYIkZf0PokM



8JLDLhohpw+wmjRj2wGEACO1/ZDETS5YZ9KxEVRP9YKzC6M+nf/3cZR/iwLx  
75+Vz5li5gztlj7nRdTP1etzvu5FLcDA31dz7N3R59wfmG7oc95qkKvz/nS  
1m7rc3aGqftyXehzJoVzOQqkzzIRKTWWJ+zJYyXV/npc27cz0RJ0eeE700U  
IUyLCqLPOZ9XogON3/+z6HNS+Vv+0+aPAAtOPmj+SFfVhw/zh3dLN+YPZTw41  
f5wzBZk/qQSu54+9SkX/+ePkPv38sf8dwTpXX938cbyOzx8l5TB/vLxPnT8W  
7ftZ5g+n+r3wiYof871wMH8dJVtxy8zPX4efPm36Sd33Paifaz6JITO6oR+L  
RfX1AeC7+b1+Tb1/+2WB8P1c3+tfX7mbaaQORt1QM+qGRjnP01k5CmZtvEmi  
Wj6ncVW/WKP7OwNRCbVqY/mkv+nVro3IY/zr+9EvSSMRgcot+nLxAkvGlnbz  
GngfhDf+KPEkGKbSQDflcHpp10eM/58E4FdkMP5blSdcB7g96ECV2w4g6xFG  
Vm4eAe6CVfRNGPbB4S5o+RtQ/CsDPth3CbDkHuOy17BZplbc06KuuGkS3tky  
KedqnldjSMsi9i0TJuNJA0uGYXIM+ZAlwzE5gbzDknSCrKIOTWMzRE21aTOs  
X7NrnEdi6Lhr3OIRmeBFZntP2loGfVjDjQ54eXqmFucTkTGyhGasB7v6F3DB  
E4Oo4gWqBvJ1YFS3G1F9WYyo6jNJE0NVbatj73zgPhfHO/EFrIOj+0uxiN91  
BUhUy173ajM4Ofqo0BNISbGIR1zRfPVVE+B9IDLf5/9QUprmgWBcKRhflieQ  
ptcVuvugNydfV7jig268z5IMOIYceF2nYfviOVIvF4rt6YyD5YL6AWAt2XcO  
dkciy3rAYyq7FkQU9jEscIYuLXZNSaOZzmfS5LzY3J2aDUn6unXuJOC11Tqr  
xjBs2bXuqWmU0G2kAZb/rVZ3rTuKPGqyzK5MszvVgg/uWujquuNINlynrkbU  
0MfPc7iUioMGj0zgz7pad2ZaFjDb1SXKeHKvijKefLMKUdZlkt9xlCw/+3nR  
7DSI59ZphmQVGtJi/0DdpE3LhNeV78rZ517qDtgK7esZBdiN5HT0w+1/vBe0  
WBkLFrjSIW57JXD0gVW4UcZTefgxGcFUDbMbzFghRwfe+R3sGzj4oi67Y2I2  
iXRelth7GbCyksZGzu11Z++Fzu2VMxz4+G+lywW3rZLeNe7sSm4VfhxbiciR  
ZXtgWljZRGm7EVljBqBqqWEbk2zHD/ZkYfuuQc5KpYNbBV6gojA5y2XbDWdU  
NLUbfDDUKBLU9PDqQCrc9l+mKhjIKgSph2UHqP/Ww/lkK1e6UbAiZqkphxXn  
QHkOAMixVjyoiTnX2gmSXQk3SPhKGLKPP+6ugVQbpuJJ8wrkFdDPH/TzoS8Z  
M/qS8U3Mbot07sch+zj9+pdBhZ3u7J1Av51yRiGsrMBl3o9+E+jyybmyVnY8  
5VxZJzuecOPkUEn2VWvpVgPTKqVbjZw1g9LNRldqMFXQyauKjAzXTF60xm42  
Vz1dzaYTNWPICpRITyZpxoVbzLnb8AavJCua2QJB+/CCkYBsZkC3Ybu+nW/X  
L8MFj1l+3UKK2HeAlREfGxrJciOScX5INJsgZbAJcvZxrX1T0Kf238/tjzep  
YT8XdrGtyDYKZJ1oj3L0hSfoensM2UAJ0XIGOmKPGXeEOfiWsw+ZxPOvi/pf  
/sT6bip/fvXtg8Bvl8fSdf2N11HfGqD+nu70X9mfSZ2kXxr4lad2XW63QBMd  
/GiRsci4Ha1bP7npg3cnOxe6i9Z295JjK/B4g4pMb9g7j4JzkzFsOS87ltdz  
/f/pZhL7DUq03+dx/4T+JAfqt3nr9fYH12vs9Fe7RsT+xOBWtAU8iEeWob9U  
2hu4vSz89poFz+GNOCVZcINALYC5y6Z8eAFT6M2d7LnhD9gKGiUUsJUBRnfy  
75NhrxoGht8iLw3PnWScbu3tMM/CaVBbDrznLw1XZ1xOAzmxjYLLi68tuKV  
4LUJr430ysYrJy7DnOV4deC1EK8r8FqM1zK8rsHrRrxuwutmvG7Fay5el+B1  
EV4X4HUWXTog+5OPgdfGPKvsSDDLsck0a+7R3Cqal4sFjgQreZS98x4FEPIB  
nT/B1fPcK970o+60BEt5VV7feyPWUOBVY+U+8N/dJwkwT5vcvVx9PDQjLyW3  
WAJlgRkoSXN3AGo82spxxkvbIZU7LgrUQOhlBzROfACPWOfObZIM27gXwagY  
Jrv7AMTs9U91TPQ9He3uW/5XR0/5Yyx2/sPccj6DO45MhBxp7qNLTXPYFvPD  
7oWW2e486yPulVHll/N6OScDfqluLPT5lhwdobldd3+Nmuk1yOzH5brYI6l  
ERlrw7IEOzwT0nPhqd8JH4fmWWn++EcyHiYXqaiUXwY04XnDAaixEyuFD6ET  
EVhT7KfgtiBumJlsvvoCD3luJ45DjoyBfq9lsJjybnROBnAprzdjjNQIPsnm  
4D0B3yuSWyn6uUc9SRelqHMQ19xf3ArJ8TZZPsrAgx+zmahCPfH57FSD1p  
Y5FjpIVFKsiZFtlJTrHIJLHlmWkGiPMjNBbLL4E4n9hcbTds4PF0ejOiyYO  
BnPcLI6WblazOFqp+R2Lo3mZx1kcTcPMZ3G06fIQi6MxlgdYHK2ojle4JwOG  
H/+Dbvi1MMg4KKbrMXxSRpZZ2IRBTFgr7lta63yHUgvgYtMB4T+GbE86wL+p  
g/cEht+O8IUAv1aF58YXbGugrALKftOh7bGnDvLmafC3koq1AJz0HS2Y0qEf  
Xq0nA7JHqdmeCkgPFGmpjaZ7i/QcSF+9pu1/exEXggsQ8ewFCC+HgHKvUn6i

iAvJ+0VcSA4VcSGpLOJCsquIC8mrRUJI/IgkhGRtkRCSVUVCSJ4uEkKSUySE  
ZF6REJKZRUJlphYJlbnmSAjJqClhJlOLhJBE4+AaYXDXrqpUhPe71y9CyeZL  
tOTMVQN9oXzNNuAv80Cw9RUInkA2qvFkUqbGJ5FCNZ5OIkHcUwW4ywE33q+/  
vYr3a9RlmtbfYv8fh0IXRL362t/Qql2EXshZ0ValWfFxELOijsLOStGFnJW  
xBdyVgwoFKy4oVCwQi4QRPIuQLCiuUCw4nSBYMWJAsGKowWCFQcKBCt2FQhW  
vFlgWPF8gWDF7yHumQDDX/69nuD8/ih/CyCkKxRipg7CkwR596l5nmJlJxJp  
L6QHInRyO8i/SK+B9NV2nfzno2RAwZl2fXeY/Odzop/I50R/P58T/VA+J3pl  
Pif6rnXO9FfzBdH/mC+lvjZfEH1VviD60/mC6Dn5gujz8gXRZ+YLok/NF0S/  
J18QfVS+IPrgfEH0aByl5XuQ/yt6+f8HIFRByZkrhvGjvL57BeWVAMS7egj4  
UPpJqM9N92z14PCbyl48TrQteZxo/57HibYmjxNtNUQ8UVcp2lyOVuH/QSjJ  
hZKZugY9GyHvPjXPQyA9SqRTrwH/RXozpHuLtA/SVy/r+O/gXb3g4F392sG7  
+oWDd7Uelp70Dir50GVNh4B+YCTpqGcjlG3Xlin4N2NdD5SXGMtBwyRpK9IP  
dUsmvazEE0iyGk8mCWp8EoIT4+nECnFPI+BOvMwO9kdic8k/0KxontUfs+ZA  
lnxJ1wNPMWSeVzM9Xkh/LtLJnTR9XE3DbufvP8X2cbtv3RYIHk+K1fgY4IDj  
E0guxD1rAFHJJballsZQ4G7btC1KPJ5MVuNjyB1YrQ6qTafVpF9+v/x++f3y  
++X3//jX1sMkNdBwjlaKHkzzcAX9P4+G+2noz/N60P9XI0ySj4azNHxEwzEa  
3qRhDw2v0bCVhk00rKLBQcNSGmbT8CAN99DwuZnWpQGcbfhouExDBw1htMxC  
QxQNcTTE0zCchrERrO0KcVmcDUNp6E3DJ+EmaRsNK2hYQsMMGvrTINFwNswk  
HafhURqSaOgw0b7S8AYNa2iYTcNwE8NbJZmkOhr2Sizdxv+LX+O7W16C359T  
EFwqTmH5Pv6/kf+vg/+pol4Uj/veFXnFmnlOW5yT+mzMnl+deaYshf13pNyF  
v6MpCiBr/2CK7c5bTFKpFG8qlUaHIUUrjLaXS1PBSyR5Raprus7RHltRLKpFL  
5PDHH3vK1FtaNnsBDGXBSrBe0uyS/5YWllbttIDZ4AUmilaXtEoJJZ+UFkuS  
E/af6l59j0XiXzQ7B5n3s8TD8/7gfFCazBJPPLnZ+a9nf80S+Q9scP7m21aW  
eDbd5iy44waWWLInuPPZ8gSWWHVqm3PloQ08cToZ2gsr6XQOeGihc/XHc7FX  
8+ZnZz0y++FpD/7LrOm/mnxfSvr9E+8Ye9ekO29PHDoiefiwm/rfnDBwQJ/e  
kXF9bwizhs+Z+9CMzAz7A6m2mWITxo+7d+qEu0cn3XbPmJG3DhoyKv6WG6Ni  
B8f062nuFW2JkKjAhpeGfzF/vhRRGhEtLUt56PnWxe3fy1WNPSS63v9hcccP  
KQ6ph5QS6SSL29s1+R0p42i+/OGAaYvrr93/XnN7GOBXX72/vNnHYOquyccB  
/u9Xpi3+uHNcDMRP7LMtrr0mVzU30ro9Dy2uqRv7WbWXwR+W5fPVdWq8rrmG  
1T32lnyx5zlj/uDAocXvyXfNBjy1nx1c/PZbFM9eBu/5cOwL1RUs/j+AZ5sa  
r2vezPBUvknxHKZ4/nRo8X75/9i7EuioinRd3SyJqNCjElalHUVQFm8v6XR3  
0ktWEw3aJASCgknTfZM0dPo23Teh85wZCZuo4wwoq4ovOICICwFEYBRReELIQ  
AgRIImz4hqgkGdE3L8iqAv3+uWde0naOPG88945c1KH3++vqr++2v6q+i9B  
UJ9q2yMP1u3a43j/z8Az9hvPjwxqzpA9PWYx9uh17cVEJ4Ne4BnOfCs3uvY  
GFRPbXsReFbvcbY5B3hsxH7NoYmDq1OJvhzzWDv0+jY94VmxG3jswPPCXsfK  
oOpU23TgmbfH8fvdwKMk9kurJzRWDyV6KeZRdOj1bZGEZ9Eu4FEBz7y9jsVB  
1dS2h4Fn2h7Hb3YFK1rpXgQqJ6ys+jvR5wJPVXOHXt/aRHj4j4FHBjz5ex1F  
QeZU6/fAE7PH4f4YeCqIfcGBCVIVu4luxzzHO/T6VtiLw8Dj3Bm80P+QPHh4  
2l4HG2TIfg3Z65ixE3jeJfbZ+ycMrlpD9CkfBWtb15O2WcFHV2D7wwk3HLaP  
wh4p8LTtdaTvG99YRfeo/gewXx7yK41gf+xPJkfdD2AP+1UH9jVHx6+uKhD9  
qipX9KvWbOpX22GcJdDXGMGvooRxVoNfbQceul+768ZnVelFv6piRL9qHUv9  
ahvwTAaelYJfrWpNg3V7B/xqG/DQ/dpcO35wVaToV1VI9KuWa9SvyoHnfuCJ  
EPwqqnUY8LwAflUerGih+7WmZlxjZzPoV5X1ol+10POyYmvwQr8LKFh7VfCr  
VS1fA08++NVW4KHnZWnVuJWVm0W/qiwT/aqFnpdFHwIPnJfaNsGvolrweXkM  
/OpD4KF7ETg4LqsyIPpVpVf0qxZ6XvgPgAf2q/a04FerWvB5GQN+9QHw0PNS  
8Nm4wZWpol9V2kW/aoG9OHwa/Op94IEzUlst+BXZL1irGe8Dj4H6VcUjjZVj  
qV+9F6xtUREd/eq4f2q3X3bY3iP32GHgSf/0kZUV9E5L3WGqbLmf6ltMi8Em  
oi8qGxY8dxQp6lOQ4m+ATSAAnQOpAqkCaoZzB4kcKnQYeNdC9IMtAykHE58xL

3jOkpZhdAYoSHjizbQISyD5Cijlf9DMbKdaXI8UpECXo1nzcAmkGiQObmSC5  
bugP2pytBn6sg6BVSKGKQYp7o0H/GCSfyBPbkSIAshvkGsjKHUjxCcgXIAzw  
54lsA2mehhTzJ8GYQSpAmkHKIlgPHkzCOJwk/egrKQS8HsYI0Q74cxAuyzAZc  
IEqQ+ZOHgSBVEC+AtCbgRTtIPUg5SC5U6B9JlloQFAW6JC3AipBloHkgrSD  
VIDYpkl5SDnlfBAFjLUZEHYqqMiGdiB4j6YeC79HRbvIHtXzxKbzHuG21uLw  
bW3FpO2yV5BiyRtd24b2DkG9dfHP7139EnHv6sEeLSFr++2bSPHXN37Z3il/  
C+P4LZIH8yvH59H+CvVT6CPqg5+eR9nrMM+qn5+Hcq04j9tqYE+2k3kwH1Nf  
+QXzmL8MxgliieMehTguFuK4FijJkMcd1fEgj5l6E4hjouwAOK6Q83AQy+nM  
E3EsN1EHsZy59DM0cYH8hBDLTZRhtU/pPojlTv1/x3J4KOMnPPzQuEfGPKAc  
PfbB++8dPurX940Ycs+wkUMH/2rg3VF3Dbo98k7FHbf1k0cM6N8H9SXR2YQJ  
EJ3JX0l6y1M72h3Xfrw1OouAyOvltDTHueuWfqHlq/m6GHI9cTOaRF4Hshyf  
X6eR12N7HU0N6tWhyOu4JPI6Lom8GmpJ5FUHEVNjUHsK8xyBiKCuvoy8ak6q  
s0KR135J5LVfEnkdPEQir7rV+KXVrsKR1xF4AT49JEZeu0+oB4cir22SyGub  
JPL6qlZEXnUv4JdWK0ReR4bAS1sjRI6bj6saQ5HXeknktV4SeW2oJpFX3Tz8  
0mqjcOR1JAJe2mox8lpTr1oZiryWSyKv5ZLLa0UVibzq8vFLqzklRF5X4aWt  
EiOvpcdUWaHlq1QSeZVKlq9FISTyqpuGX1rNKiHyaoOXtlKMvAJHVYNDkddc  
SeQ1l0ZeddXw0h4kkVfdY/iIDUXKex3ug2LkVXCEaQxFXs4DJPLCbdmgukGw  
16gcuQelj9VBxD3jMNPxQmZ/Zl4MkRe8ihcXBhFKVg/D53QknNMxcE41cEYN  
/RagzlgFaFfoW8uWPBnOZ+Qg8uZFyvuiQaUX+gxF/UqvLAW9jvLS6wsH7MpZ  
+Pz5P/abhSKDxy425k+uCx6k3Xboxx6odPz9QvAzwZ0TjzjOfRc8leiZxx3N  
F4PtZXSyn18K1oeOSNPluJVWqh86bFICHvXJZ/Bv7TbPIXcesxMpMsrFOw/f  
XeHuvJxt5H57HbBx2y+/87p7q3A5k/LzNlhC40eH/7k7OzT+/8072/IQUmyJ  
QsJWKvu9Ngxfw6kXUGhrb0nCe30cxgd2gyHv7caOOU7q4gAx5xMUp1CcSTGP  
lkcxQLGU4ksUV1F8m+KHFP9MsYriCYp/o3ie4hWK8hMEB54g88B/YE7/3U/P  
w3CC1DES+4Ju7F3UPIdiv6Yb+7XUfhm1x2Or6ca+QsLb/h2ZC7p4qz22k2lo  
yagMvdiVf8MMsf/UMPU4Yb52Sf/ei6T/+T3sf00Y/h12kbeG8jb1kLc9DG95  
gcirvER4mUs940291JXX6hJ5A5R3aQ95y8LwHpXw1oepxwnz2U6S+Hn6SWJ/  
N664/NP2XmpfQnEBxZcprqC4julmilspfkKxmuJJimcpfkPxKsU+DQQHURxB  
cQxFTYPob7u7GbeN2vWHfHN382sgdSUNZC8WA+I1XA6l/0j/OkD8v9S+K+mX  
udLNOWsQ77nsbuyaab/f0n5/pNi3keCdFKMoqj4lqKKopFiCsUMis9SnE2x  
mOICin+g+DrFTRS3U9zXKM5XebWbeTSKfpd6lbTN7mSP7aQYSiF/9obhT3pe  
5C2jvOU95K0Jw7uwVOS9Rnkjr/WMV3mtK2/5QpHXdo3w5vaQNxcG17pl5N1M  
eXf3kLc+DO/RReL+ou+7OUenxHtibDd23IP0nqC4gOLLFFdQXEdx8WtFD+h  
WE3xJMwzFL+heJVin9P0nqA4gulYiprT4vyau5ufxC7yh27mR+0iIM90Y7fs  
NKIbe5rs1UaKH1LcRbGC4iFJ/0u74W0+LfpB+Q+Uo5M9tpNiKIX8oCkM/6VX  
Rd7IHwnv0B97xsv82JX37pUiby7I9faQd2kY3vrVlu9uylvTQ97mMLy5a0Re  
xXXCq7zeM1799a68/6C8/UAvCFOPk+CHTcRvp1OcrXEORb5J9JPybniWSEya  
urErbxLfr3Tjp+3qm0jdmSayJi1N5H280ETexxtN5H287YzYr60bvIESu0A3  
duozkvv/Br3/O9n/3H7Uhof/9IPJ/U95l2/2jFd5syvvV/sk9/9Nev/3kDcQ  
hvetCtF/NoepxwnzzT9D6l48Q/peeYbs0/ozZJ8+oOuj96q9G54DIKeO8jRR  
nnOAa4RRktQM+vVmGJOkrL9Mhu74Av8AVyyr7StDG8DuoGTGp/rJ0FgoK5eU  
vdlfhu6BsjclZYolGe4obOr92XzXn83fhlj3NJ+LZxO4QAabjyl+XjOhylg  
n8HanbQa2elz0jJzUgLfjq/b5Zkz0el2oypkS8jJZHmbnXcUODifk1pl8kVO  
F5fleXgf5053zflZfSVCA5Qus/gwqctj9dglWWcazxZarVnxyfHxU3lfWklm  
D9VQAIm11fo0OiyzzBMG1alBAmnvVJcGyl578HI+vqs955caP46tW5DF5exk  
+Xj20+hTmaWY9Tg5X2eWhKmWB3kfzNDn8uRbk6xWMEbfAovHxXeaUmpXY+hy  
C7LM4gl2u6/wSbCewqU5rZBPYv0Oq3Uydb62EdrY0Qpb2nhfvM9nL8lg825p  
LLQtZh08jNsWP1XSwmqFmpwcJ5tnL3LzOXa3m3PkwEC9bjvPWWh9kmAeZeCtO



MJ04ZLGoJFOZHJ8szHlWIDNeIEzkCguLPC6HHfcTqt4is/C+KT67g7Vap8dn  
2+KTnoY2GpnFi50DvAhP1xrK3Drkzgs6F3pKkO4u9JEK5V5Snta5XC32AsvZ  
pQ+8oWiezOJn+XiPE8bo8Re6+Hi3G6+OH6+gUObumE92aiosuglYwY/SPH4e  
XNnP09W+xVaYQMjKSzqbrxOYdavGlmcmMXh7Ng8sWWn3cuiljngsj3Zu00d  
fkL8Stz/0Dq0g6/6kwO8DR+RzhZ4MTtOeqKTFw7tNrnf5SmAr0C5m8tHO+T+  
uT4e7mNcitbJvdw8lCR3cH50VM7bPcgg2NAL8ndTjbgRRdQTh7PudHjcpX7  
Qp5nn+VH6l+YS8XA82Gxali/ZOO1GwR5NeQhm4bzaSgnJzEQSPHBcqbaPU43  
60P75LAobhb6KJG7/H4vuByKR9hsSoGPm5ccccLBe3sVB/bPyPB/Lwve5vFBY  
NeCDUbhg9K/KcrxFPtYBxShdnudwc36wy5bnecEN+Tw0TZ7HeaGLSZITEzOm  
kLsrC8YCCucRKJblcgg2SJaDTz/P+grROpRjd84u8vM5eU5XMcwT5qPruHcm  
C/ccY7Xp4gUU/mN9Gib6Wni7hCSo+x5ZHKwP3EATusFy5rn4Arvf78r3wGWG  
0ECZBS4rNz54na45lXB74Fmk0WlskaXBYF12t+vf2ES4WuEYuzPB6fCC5aFk  
D0yjczHaL0tn7cVdzNFMIOTy22e5WVh4uNXpTZ8li+pHTyRnPJmcrIGTtSPp  
YcXVFIxLI2UkNqKSCm93DUgqILtGIZTyYYS2RCGE/xWDQSDR9yI0egRCEWoo  
HwPfqVA2fSi8ZQ+BVz6I0DcPINQA9p8PQyh/PEJTH4VYCMrOAM9/34/QU79G  
yDAOoauAZ6F9A3B9PBKxIHafx/EP8BjAbIRhNAyGMPriJtBtoHsBakFOQny  
nyAtIP8F8gPIgNtkaAjlQyBqkASQySAzQWaD8CCIIIMtB3gb5EGQfSB3laZBW  
klsgsgEydDt1AAS3clRH9QX9UP94RWOHjd6ALod3YHuRAPHfCjQr9BdcMfc  
A/dxFBqChqJhaDgagUaie9F9aBTKZ+cKS54XSLC77R44G3mBxALOV+Sf5nLy  
BTjndnnVGqxwhd4MO2wl1fEu+rFFkr3QCwcNFecCHJs5WIOzUiKgW8DkgNfj  
DDVOdWUWsO68JBeckB7nS/x8B1m6y8PafelssQ2uhVB2kiuAde7WdunevFSv  
mJ2U5/SE+u3Q1ZCxsT4H68EmNnwHhmzgwizy+V3FbCb00TmP22VwXGGHMcfj  
0XsSOTbPD/IMmLObTeSKBN7MQo7jC4Q1CKnYELJT4NQnuOYW2Z2QyeaKWW/H  
ajkTHrO7PEyHptXDbvApdnyjlwh3foldXzO9qTf1pt7Um/7F0n41UsyPQopg  
MIJEFcoftQgpngfZB1L/PIJs3YoUd+1Eii/3IEVb7a2/r+LypINkIK6lx391  
GsYMjKzf+1jyZPicAX2Sy6IP8bFzi1iPo4TkYzrldZ3y0Z3y2k55Tae8WppP  
dYm5VBd+0sgYiEb6l+g6iR4t0bUSXSPR1SE9nSNaCS0IUIQ1UHJ5ykK2EB5Q  
kp/EQoCa4cov4CX5dDYPZ1HBYJmiPUqmaL5bphDXbHLn4cj6hexxnY0uKjuX  
L/GyGFWz8F9/BwgfDXOFPAehNCJl8HlaKOxRaH+kOm7nMM4ITMQfSJDylaFk  
Uo5mdO7AAITmf4JQxv0Q7ypdofgbPniVwseqEr7DjMrRftxWiTOgK92c3QkW  
t5QVeTpKO8p8vBjiIWF9bikTvnMQ8vrXvzF8YxqVeD3inU6at/G+sQ8r8+wu  
N+uEMSm9/mS/I9YJXEol2AuMytEu4OMFK/hs9Cs7SvAOCUWlzLfqPgfPCqpY  
n8fuhhZesHBwHg/5ZjAq/T6HcbQLfinhE5doP9EWuP+Zxr2pN/Wm3tSbelNv  
6k29qTf1pt70f50UCCXJEJrDrGa+Yr5lJMDVfeonIE5VT7VOtUmVbtKr56t  
XqRer/5MfV6t0Vg0czW/0byoWakp07yr2amp0HytUWvN2jnaedpF2mXaN7Qb  
tOXaT7T/0F7XLo1eF30t2qHL183RcTq/bp7uLd0G3ee6L3WXdMaY1Bgu5rmY  
V2LWxmylKY85EHMs5i8xrTFy/Si9Vp+mt+Vz9SX6/9Af1n+nv6IXGEYaxhg0  
hhRDhmGmwWVYbHjbsMtQZzhnOG+4aNAZ44zJxmeMJcY1xj3GU8ZvjCh2cKw6  
Vh87PTYntiC2OPbV2K2xB2PPxn4XOzBueJwlzhm3PG5T3P64hrgrcaNNJtPT  
JpfJZ3rN9O+mg6bzpqBpuPkB86PmVPnsc4I5gft8zvmHeaD5q/MAY06S65l  
ieUNS7ml0tJs+dpy2YKEHwhbfXRkIDOCMTAJTCYzgznoXGFGqKwqVvWyqky1  
U1WrOqu6qhqmtqinqWeqn1e/rz6hbIPLNZGahzSZmhLNH4TV/KvmimaANKab  
qHVpf6ddq92ofU+7TbtL+6X2vuiK6OnRz0WXRm+Mro1uix6ue1T3uK5At1hX  
ptunO6eTxYyKiY/JiVkc8zqsZDBGpbfq8/SI+hf0r+n36Bv0f9G36u8wfGQ4  
ZLhsuGm435hkXGR813jMeM54w5gb+1zsW7H7Y2VxY+J8ce/EnYt7wjTN5DUV  
m9aaNpq2mS6b+pkZs86cZX7GvMq83XzUfN4cYRlpUVISLHbLKssmywnLI3gd  
GPgF6zCamcgYYRVymN8xLzBrmPVMIEqtell1W7VE9af/ae/8/6qu7jj+cV2L  
Eh/ChsaSJSY5MrRzzuecz+d8+5yDGxoVU0xGjMgoyVFee9AiouKR1CixbklJ

Zj2wqFGRUIghMWOONVJmIFZolKS3QiPDhY6MIGzv6+/bX9Dn93vP577P8/XI  
cx+fez+4Hb+LP4dZ/JxcQORJq2QX+YocJd+RH8h57sVujnuTW+s+7x5xL6T5  
9Bag6s/0UfoM7aT76Gf0CFA1gUn2e3YdW8HuYC+wLexzluBN8+L5VD6LX87/  
wEv503wr7+Q9fB8/zCeJWQIJLa4QheJ18ZZ4XxwVjpwk58vr5B/lrfJe+Yjc  
lt+XH8kv5DE5ThWqG1WIWq9eUFvUERWnY7xcpLm+Rlfqu/UD+gndrMcFCcGO  
wAYLgmuC+uCVYHPwj2B3cCAImWnmQoNNpIloms0bZrs5ZL41Iatsvi2ypfZ2  
IGeT3W57bJ/90h63TqYT+x2csxAtQsVQQ6gBbUKfox/QGXgSPH/PxlfifFhW  
vBl/DEo8jseTJELJb8mVZDVplhvJFvI26SXfkyT3PGCluVlumbvGfRnmNpte  
S++k1TQCatl/0UH6GF6nI5nSSwTZraW7WL72RE20Uvz+rxDXoX/uv+Xv9//  
xh/zU/hsLnkhX84r+Xr+It/C9/lv+QhPEhcKAtpbKspEnWgCjj4SX4uT4nxJ  
5G/kDaC81bJFdsrd8j/yLHWukmqBWqLuUY+p51S36ldDapKeoV2dr2/Sd+oN  
+IXQ3qxgSTDHOLmOowGdbSHs3EtnuJudQ+5y2it3+L3+E/yfHmfzNczg9rg  
4aA5eDn4Pphi8swJUwhzdIodpwxeeymQUkSvp6W0jFbS+05/3pM0xCYzeax  
Bexqtpo9yp5hL7HN7E32DfuFI+ylevO8K7w8r9Bb6uWDNirEXnmGUrdvy/R6  
fQBWXBG0BaeCeWaNOWClvdfushHFupwY35WoG9S9HG/DiWQv0Bt273efcTPY  
YnY9Kz+91uvsfRZlx9g4b7KX4WV7+TDpGf5l/gLQaNiP+Bv8jf5Of58/6Mfx  
X/KZfD6/ipfwGv4Yf5a/xT/kUe6IJJEmLhVXi+XiYfC718Qe8ZX4XqRIJDPI  
Unm7XCU3ym3yPXIUjge/4ypHFamVaq36i9quPIGH1UQ9XWNdq1t0j74fKD1u  
1Imn2jn9FO58mHIFnc9uZXu9OH+hv87/1E/jN/PN/Ee+EFY7JubJx+Sg5OpB  
tU/N0fdoL1gU9ASDwfGgwmw0O80uEzVHzDI2qk2384DwpbbaPmKfsm8C3x9b  
p85xYt9dpqMcFEaH0GT8PjnpVvhn8nV8plgoHhLviLPipeDWR+VN4D8Naqsa  
VSE9USt9uV4WPBXsAiceDsaCCeY8I2DPC80yc5upMZ+aIXPSTLWzrLBI9kFY  
c4NtgVWj9mTMgxodJxc0NQ5NRCnoYISD1qJn0Vvgx1F0LrgQx1I4Mb4er8LP  
4mbchv+JP8AXE0kulzeSSrKkCbMfkwPka3KCnO3OcS9zF7pXgyPd4X7gfuYO  
uwI0Gp1DbwBt3X/alVrpHjoM2voZS2SpoK1a9jh7g21ne1i892tvtidg56/y  
qrzHvQ3ei167t8NL9S/xjb/EX+FXge7e83v9KCjvID+DG57Fc/m1sAc7QHUH  
+XjY/xngWreJu8QqsU48J3aKg6C678SZcrKcK4vISnlcnpJIXaEWqWtUGKb4  
pNqs3IQ71F51UCXCHet0o35Fb9P79Qk9lclg/2B18EX8FMJ5sLTNjcZZ4w  
L5kO84n5t/kBZnqJNeBUZXYlzPRvtj82z1YnJjPnZ+hX6Da0Gq1BZbgGP4A3  
4b/jt/EhfAI7ZDphRJH1pl+clue6v3NT6WK6g6aym9kImwbkH/Q2gb+czxfz  
MwQXwyJJZkgmPXVcV9jYv+pE4P0r6Ld0Kstgy9jtbII309vu9XhP+E/7f+Vp  
4ODzwbVnSCq/lcP6R10drAnWwpm3m27lol44+yg47TEzak6B255jE+wUSKcL  
gMs5llppMyGncuyVtsAuscvt8CHm4CY1+AT7oTkitqD9rD9xp6wzm7HqYJz  
OQslopmlII4Kgd1uNIAOo+9QCKfgqWQRuQcy613yGRCS6E53sTvXXepm0kK6  
hfbQd8BXx3mJ3nQPe3PBWzL9QqtjnD/0j/jieyKdzzOfyu/mTke9TxEWQSOvE  
deIWsTWWSVHH6YzdrRsFDPI7H8wSexJN5Ck/laTydZ3AerYjzYvCIUh7mZbwc  
HLqKV4Nj1PIlr+P14NcNvJE38Wbewlt5G2/nHZCCXbwbkna3NIA+3g+uMsAH  
+RAfBk8f5WPgMSERJ+JFArCWDB0rFRwnXWRAYILYKS0yRZbIFjkiV+SJAIEk  
ikWJKBVhSIFyUSmqRLWoEbUiAplQLxpElyRDS2gRrZAP7aJDdlou0Q0tbbfo  
FX2iX0Shrw2KISBgRlyKMcjhklyT8TJBjSlkmSJTZZpMBzYQ7DSHTpcJLSVb  
5shcmScLZBEQXyJLZViWyXJZKatNXSYWhmRdblemi+DbJRNshlyqFW2yXbZ  
AXnUJbtID6RSr+yT/TIKbWdQDslhOSJH5Ri0xJCKU/EqQSWpZJWiUIWaSlcZ  
CikKbqpVpspS2eCquSpPFYC3FqsSaJNh1QfKiNoBO2iH7LAdsaN2zDrDkEWx  
m4hRCMWheJSAkIAyOFAqSkPpKAMhRIEnjTJRFsoGT8xFeagAemIxKkGIQFkZ  
KodUqULV4Fi1KILqUD00pwbUiJpQM2pBragNtaMO1Im6gMgetBv1oj7UD642  
gAahtw+jETSKxpCDQzgOx+MEaPHJQGwqRjgHF+ByXAW6jeB63ICbcAs4Xwfu  
wj24F/fjATyER/AYDpF46BipRJMSkkvCpJxUkwboGq2kB7QdJQlumougoRW4  
xW6d2+S2uu3uoDvmxtEEmknzaDEk8HraQttpL+2ng5DA8dA5Ulga6JpCFmex

HJbHilgJC0NKVrEaFmH1rJF1sG42wlbALcZYyluHdKZepfklXhhrxzcs8aL  
ePVeA1w7tHhtXofXBd7QC9cRA94QXEmMQX6l+cjnfilordav8ztPu+qgnwy6  
4dCDy0AldaCPbIDAIA8B7RnAtwa2c4DrImA6DDxXAcuR0xw3AcNtwG838Dos  
4oFNCjRmAYI5QGEJ8BcB3hqBqwFgaVSmAyyZQEm1qleNqln1Qd8ZVY5GOkvn  
6rAu11W6RkegV7TpTt2vB3UoiA+SgpQgDTyZB3IBcVAFDacu6Ax6gyhkbLLJ  
MBx6ZBnkXZ1pMW3g0V2mx/SZETMGHhdvY3eux54j9b9oq4EuFcHOT8dPx/89  
/gtQSwECFAsUAAAACADgYfcs3MqnlvIQAAbmSwAACAAAAAAAAAAAAAAAAAAAA  
AAAAaWRIYWxvZ29QSwECFAsUAAAACAC2qzc3DuupSRQDAACvBgAADAAAAAA  
AAABACAAAAAYEQAAZXFyZWZkbWUudHh0UESBAhQLFAAAAAGABqs3N4XgHllt  
BwAAKTcAAAcAAAAAAAAAAQAQAAAAVhQAAGdlcS5pbmlQSwECFAsUAAAACAav  
qjc3dGolEnRkAAAAMAEBwAAAAAAAAAAAAACAAAADoGwAAZ2VxLmRsbFBLBQYA  
AAAABAAEANoAAACBgAAAAAA=

---=\_linux46f86942--

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [xpam\\_mark](#) on Tue, 25 Sep 2007 02:37:50 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Awesome Mike! Where do we send a Paypal pmt?

W. Mark Wilson

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...  
>  
> Yo, yo!  
>  
> Attached is a new version of the FreakQ!  
>  
> New in this release (both mono and stereo versions):  
>  
> - All Mid and Hi Shelf EQs now have selectable frequency points.  
> - I've added output metering to check for too much gain building up from  
> boosting bands (and because meters look cool).  
> - The low shelf has been removed because of a problem in the dsp code that  
> I don't know how to fix that caused massive distortion when it was used.  
>  
>  
> I had hoped to make this eq fully parametric by having a width control,  
> but  
> it either isn't possible, or I just don't understand the math going on in  
> the algo enough to make it happen. A friend of mine who is far better in  
> math than I am has offered to look it over. If there is a breakthrough,  
> I'll implement it.  
>  
> Let me know what you think!  
>



> All the best,  
> Mike  
>  
>  
>  
>

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [xpam\\_mark](#) on Tue, 25 Sep 2007 02:37:50 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Awesome Mike! Where do we send a Paypal pmt?

W. Mark Wilson

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...  
>  
> Yo, yo!  
>  
> Attached is a new version of the FreakQ!  
>  
> New in this release (both mono and stereo versions):  
>  
> - All Mid and Hi Shelf EQs now have selectable frequency points.  
> - I've added output metering to check for too much gain building up from  
> boosting bands (and because meters look cool).  
> - The low shelf has been removed because of a problem in the dsp code that  
> I don't know how to fix that caused massive distortion when it was used.  
>  
>  
> I had hoped to make this eq fully parametric by having a width control,  
> but  
> it either isn't possible, or I just don't understand the math going on in  
> the algo enough to make it happen. A friend of mine who is far better in  
> math than I am has offered to look it over. If there is a breakthrough,  
> I'll implement it.  
>  
> Let me know what you think!  
>  
> All the best,  
> Mike  
>  
>  
>  
>

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [xpam\\_mark](#) on Tue, 25 Sep 2007 02:37:50 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Awesome Mike! Where do we send a Paypal pmt?

W. Mark Wilson

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...  
>  
> Yo, yo!  
>  
> Attached is a new version of the FreakQ!  
>  
> New in this release (both mono and stereo versions):  
>  
> - All Mid and Hi Shelf EQs now have selectable frequency points.  
> - I've added output metering to check for too much gain building up from  
> boosting bands (and because meters look cool).  
> - The low shelf has been removed because of a problem in the dsp code that  
> I don't know how to fix that caused massive distortion when it was used.  
>  
>  
> I had hoped to make this eq fully parametric by having a width control,  
> but  
> it either isn't possible, or I just don't understand the math going on in  
> the algo enough to make it happen. A friend of mine who is far better in  
> math than I am has offered to look it over. If there is a breakthrough,  
> I'll implement it.  
>  
> Let me know what you think!  
>  
> All the best,  
> Mike  
>  
>  
>  
>

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [xpam\\_mark](#) on Tue, 25 Sep 2007 02:37:50 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Awesome Mike! Where do we send a Paypal pmt?

W. Mark Wilson

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...  
>  
> Yo, yo!  
>  
> Attached is a new version of the FreakQ!  
>  
> New in this release (both mono and stereo versions):  
>  
> - All Mid and Hi Shelf EQs now have selectable frequency points.  
> - I've added output metering to check for too much gain building up from  
> boosting bands (and because meters look cool).  
> - The low shelf has been removed because of a problem in the dsp code that  
> I don't know how to fix that caused massive distortion when it was used.  
>  
>  
> I had hoped to make this eq fully parametric by having a width control,  
> but  
> it either isn't possible, or I just don't understand the math going on in  
> the algo enough to make it happen. A friend of mine who is far better in  
> math than I am has offered to look it over. If there is a breakthrough,  
> I'll implement it.  
>  
> Let me know what you think!  
>  
> All the best,  
> Mike  
>  
>  
>  
>

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [Tom Bruhl](#) on Tue, 25 Sep 2007 05:45:34 GMT  
[View Forum Message](#) <> [Reply to Message](#)

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Really. Mike this is really great stuff.  
I can't wait to hear these two updates.

I will donate if there is a way to do it.  
Tom



"W. Mark Wilson" <xpam\_mark@avidrecording> wrote in message = news:46f87635@linux...

Awesome Mike! Where do we send a Paypal pmt?

W. Mark Wilson

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...

>

> Yo, yo!

>

> Attached is a new version of the FreakQ!

>

> New in this release (both mono and stereo versions):

>

> - All Mid and Hi Shelf EQs now have selectable frequency points.

> - I've added output metering to check for too much gain building up = from

> boosting bands (and because meters look cool).

> - The low shelf has been removed because of a problem in the dsp = code that

> I don't know how to fix that caused massive distortion when it was = used.

>

>

> I had hoped to make this eq fully parametric by having a width = control,=20

> but

> it either isn't possible, or I just don't understand the math going = on in

> the algo enough to make it happen. A friend of mine who is far = better in

> math than I am has offered to look it over. If there is a = breakthrough,

> I'll implement it.

>

> Let me know what you think!

>

> All the best,

> Mike

>

>

>

>=20

I choose Polesoft Lockspam to fight spam, and you?

<http://www.polesoft.com/refer.html>

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0

Content-Type: text/html;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

<HTML><HEAD>

<META http-equiv=3DContent-Type content=3D"text/html; =

charset=3Diso-8859-1">

<META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>

<STYLE></STYLE>

</HEAD>

<BODY bgColor=3D#ffffff>

<DIV><FONT face=3DArial size=3D2>Really.&nbsp; Mike this is really great =

stuff.</FONT></DIV>

<DIV><FONT face=3DArial size=3D2>I can't wait to&nbsp;hear&nbsp;these =  
two=20

updates.</FONT></DIV>

<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>

<DIV><FONT face=3DArial size=3D2>I will donate if there is a way to do=20  
it.</FONT></DIV>

<DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>

<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>

<DIV>&nbsp;</DIV>

<BLOCKQUOTE=20

style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">

<DIV>"W. Mark Wilson" &lt;<A=20

=

href=3D"mailto:xpam\_mark@avidrecording">xpam\_mark@avidrecording</A>&gt; =  
wrote in=20

message <A =

href=3D"news:46f87635@linux">news:46f87635@linux</A>...</DIV>Awesome=20

Mikel&nbsp; Where do we send a Paypal pmt?<BR><BR>W. Mark =

Wilson<BR><BR>"Mike=20

Audet" &lt;mike@.....&gt; wrote in message <A=20

=

href=3D"news:46f86942\$1@linux">news:46f86942\$1@linux</A>...<BR>&gt;<BR>&g=  
t; Yo,=20

yo!<BR>&gt;<BR>&gt; Attached is a new version of the =  
FreakQ!<BR>&gt;<BR>&gt;=20

New in this release (both mono and stereo =  
versions):<BR>&gt;<BR>&gt;&nbsp; --=20

All Mid and Hi Shelf EQs now have selectable frequency points.<BR>&gt; =

- I've  
added output metering to check for too much gain building up =  
from  
boosting  bands (and because meters look cool). - The low =  
shelf  
has been removed because of a problem in the dsp code that I =  
don't  
know how to fix that caused massive distortion when it was  
used. I had hoped to make this eq fully =  
parametric by  
having a width control, but it either isn't possible, =  
or I  
just don't understand the math going on in the algo enough to =  
make it  
happen. A friend of mine who is far better in math than I am =  
has  
offered to look it over. If there is a breakthrough, I'll =  
implement it. Let me know what you =  
think!  
All  
the best, Mike  
<BR><BR></BLOCKQUOTE>  
<DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
and  
you?  
href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
..html</A>&nbsp;&nbsp;&nbsp;</FONT></DIV></BODY ></HTML>

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0--

---

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [Tom Bruhl](#) on Tue, 25 Sep 2007 05:45:34 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Really. Mike this is really great stuff.  
I can't wait to hear these two updates.

I will donate if there is a way to do it.  
Tom



"W. Mark Wilson" <xpam\_mark@avidrecording> wrote in message = news:46f87635@linux...

Awesome Mike! Where do we send a Paypal pmt?

W. Mark Wilson

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1 @linux...

>

> Yo, yo!

>

> Attached is a new version of the FreakQ!

>

> New in this release (both mono and stereo versions):

>

> - All Mid and Hi Shelf EQs now have selectable frequency points.

> - I've added output metering to check for too much gain building up = from

> boosting bands (and because meters look cool).

> - The low shelf has been removed because of a problem in the dsp = code that

> I don't know how to fix that caused massive distortion when it was = used.

>

>

> I had hoped to make this eq fully parametric by having a width = control,=20

> but

> it either isn't possible, or I just don't understand the math going = on in

> the algo enough to make it happen. A friend of mine who is far = better in

> math than I am has offered to look it over. If there is a = breakthrough,

> I'll implement it.

>

> Let me know what you think!

>

> All the best,

> Mike

>

>

>

>=20

I choose Polesoft Lockspam to fight spam, and you?

<http://www.polesoft.com/refer.html>

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0

Content-Type: text/html;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

<HTML><HEAD>

<META http-equiv=3DContent-Type content=3D"text/html; charset=3Diso-8859-1">

<META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>

<STYLE></STYLE>

</HEAD>

<BODY bgColor=3D#ffffff>

<DIV><FONT face=3DArial size=3D2>Really.&nbsp; Mike this is really great =

stuff.</FONT></DIV>

<DIV><FONT face=3DArial size=3D2>I can't wait to&nbsp;hear&nbsp;these = two=20

updates.</FONT></DIV>

<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>

<DIV><FONT face=3DArial size=3D2>I will donate if there is a way to do=20 it.</FONT></DIV>

<DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>

<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>

<DIV>&nbsp;</DIV>

<BLOCKQUOTE=20

style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; = BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">

<DIV>"W. Mark Wilson" &lt;<A=20

=

href=3D"mailto:xpam\_mark@avidrecording">xpam\_mark@avidrecording</A>&gt; = wrote in=20

message <A =

href=3D"news:46f87635@linux">news:46f87635@linux</A>...</DIV>Awesome=20

Mike!&nbsp; Where do we send a Paypal pmt?<BR><BR>W. Mark =

Wilson<BR><BR>"Mike=20

Audet" &lt;mike@.....&gt; wrote in message <A=20

=

href=3D"news:46f86942\$1@linux">news:46f86942\$1@linux</A>...<BR>&gt;<BR>&g= t; Yo,=20

yo!<BR>&gt;<BR>&gt; Attached is a new version of the =

FreakQ!<BR>&gt;<BR>&gt;=20

New in this release (both mono and stereo =

versions):<BR>&gt;<BR>&gt;&nbsp; -=20

All Mid and Hi Shelf EQs now have selectable frequency points.<BR>&gt; =

- I've=20

added output metering to check for too much gain building up =  
from<BR>&gt;=20  
boosting&nbsp;bands (and because meters look cool).<BR>&gt; - The low =  
shelf=20  
has been removed because of a problem in the dsp code that<BR>&gt; I =  
don't=20  
know how to fix that caused massive distortion when it was=20  
used.<BR>&gt;<BR>&gt;<BR>&gt; I had hoped to make this eq fully =  
parametric by=20  
having a width control, <BR>&gt; but<BR>&gt; it either isn't possible, =  
or I=20  
just don't understand the math going on in<BR>&gt; the algo enough to =  
make it=20  
happen. A friend of mine who is far better in<BR>&gt; math than I am =  
has=20  
offered to look it over.&nbsp;If there is a breakthrough,<BR>&gt; =  
I'll=20  
implement it.<BR>&gt;<BR>&gt; Let me know what you =  
think!<BR>&gt;<BR>&gt; All=20  
the best,<BR>&gt; Mike<BR>&gt;<BR>&gt;<BR>&gt;<BR>&gt; =  
<BR><BR></BLOCKQUOTE>  
<DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
and=20  
you?<BR><A=20  
href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
..html</A>&nbsp;&nbsp;&nbsp;&nbsp;</FONT></DIV></BODY ></HTML>

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0--

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [Tom Bruhl](#) on Tue, 25 Sep 2007 05:45:34 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Really. Mike this is really great stuff.  
I can't wait to hear these two updates.

I will donate if there is a way to do it.  
Tom



"W. Mark Wilson" <xpam\_mark@avidrecording> wrote in message = news:46f87635@linux...

Awesome Mike! Where do we send a Paypal pmt?

W. Mark Wilson

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1 @linux...

>

> Yo, yo!

>

> Attached is a new version of the FreakQ!

>

> New in this release (both mono and stereo versions):

>

> - All Mid and Hi Shelf EQs now have selectable frequency points.

> - I've added output metering to check for too much gain building up = from

> boosting bands (and because meters look cool).

> - The low shelf has been removed because of a problem in the dsp = code that

> I don't know how to fix that caused massive distortion when it was = used.

>

>

> I had hoped to make this eq fully parametric by having a width = control,=20

> but

> it either isn't possible, or I just don't understand the math going = on in

> the algo enough to make it happen. A friend of mine who is far = better in

> math than I am has offered to look it over. If there is a = breakthrough,

> I'll implement it.

>

> Let me know what you think!

>

> All the best,

> Mike

>

>

>

>=20

I choose Polesoft Lockspam to fight spam, and you?

http://www.polesoft.com/refer.html  
-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0  
Content-Type: text/html;  
 charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML><HEAD>
<META http-equiv=3DContent-Type content=3D"text/html; =
charset=3Diso-8859-1">
<META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV><FONT face=3DArial size=3D2>Really.&nbsp; Mike this is really great =
stuff.</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>I can't wait to&nbsp;hear&nbsp;these =
two=20
updates.</FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>I will donate if there is a way to do=20
it.</FONT></DIV>
<DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV>&nbsp;</DIV>
<BLOCKQUOTE=20
style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
  <DIV>"W. Mark Wilson" &lt;<A=20
  =
href=3D"mailto:xpam_mark@avidrecording">xpam_mark@avidrecording</A>&gt; =
wrote in=20
  message <A =
href=3D"news:46f87635@linux">news:46f87635@linux</A>...</DIV>Awesome=20
  Mike!&nbsp; Where do we send a Paypal pmt?<BR><BR>W. Mark =
Wilson<BR><BR>"Mike=20
  Audet" &lt;mike@.....&gt; wrote in message <A=20
  =
href=3D"news:46f86942$1@linux">news:46f86942$1@linux</A>...<BR>&gt;<BR>&g=
t; Yo,=20
  yo!<BR>&gt;<BR>&gt; Attached is a new version of the =
FreakQ!<BR>&gt;<BR>&gt;=20
  New in this release (both mono and stereo =
versions):<BR>&gt;<BR>&gt;&nbsp; --=20
  All Mid and Hi Shelf EQs now have selectable frequency points.<BR>&gt; =
- I've=20
  added output metering to check for too much gain building up =
```

from<BR>&gt;=20  
boosting&nbsp;bands (and because meters look cool).<BR>&gt; - The low =  
shelf=20  
has been removed because of a problem in the dsp code that<BR>&gt; I =  
don't=20  
know how to fix that caused massive distortion when it was=20  
used.<BR>&gt;<BR>&gt;<BR>&gt; I had hoped to make this eq fully =  
parametric by=20  
having a width control, <BR>&gt; but<BR>&gt; it either isn't possible, =  
or I=20  
just don't understand the math going on in<BR>&gt; the algo enough to =  
make it=20  
happen. A friend of mine who is far better in<BR>&gt; math than I am =  
has=20  
offered to look it over.&nbsp; If there is a breakthrough,<BR>&gt; =  
I'll=20  
implement it.<BR>&gt;<BR>&gt; Let me know what you =  
think!<BR>&gt;<BR>&gt; All=20  
the best,<BR>&gt; Mike<BR>&gt;<BR>&gt;<BR>&gt;<BR>&gt; =  
<BR><BR></BLOCKQUOTE>  
<DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
and=20  
you?<BR><A=20  
href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
..html</A>&nbsp;&nbsp;&nbsp;&nbsp;</FONT></DIV></BODY ></HTML>

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0--

---

---

**Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\***  
**Posted by Tom Bruhl on Tue, 25 Sep 2007 05:45:34 GMT**  
[View Forum Message](#) <> [Reply to Message](#)

---

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Really. Mike this is really great stuff.  
I can't wait to hear these two updates.

I will donate if there is a way to do it.  
Tom

"W. Mark Wilson" <xpam\_mark@avidrecording> wrote in message =



news:46f87635@linux...

Awesome Mike! Where do we send a Paypal pmt?

W. Mark Wilson

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...

>

> Yo, yo!

>

> Attached is a new version of the FreakQ!

>

> New in this release (both mono and stereo versions):

>

> - All Mid and Hi Shelf EQs now have selectable frequency points.

> - I've added output metering to check for too much gain building up =  
from

> boosting bands (and because meters look cool).

> - The low shelf has been removed because of a problem in the dsp =  
code that

> I don't know how to fix that caused massive distortion when it was =  
used.

>

>

> I had hoped to make this eq fully parametric by having a width =  
control,=20

> but

> it either isn't possible, or I just don't understand the math going =  
on in

> the algo enough to make it happen. A friend of mine who is far =  
better in

> math than I am has offered to look it over. If there is a =  
breakthrough,

> I'll implement it.

>

> Let me know what you think!

>

> All the best,

> Mike

>

>

>

>=20

I choose Polesoft Lockspam to fight spam, and you?

<http://www.polesoft.com/refer.html>

-----=\_NextPart\_000\_03ED\_01C7FF15.C39A64A0

Content-Type: text/html;  
charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

<HTML><HEAD>

<META http-equiv=3DContent-Type content=3D"text/html; =  
charset=3Diso-8859-1">

<META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>

<STYLE></STYLE>

</HEAD>

<BODY bgColor=3D#ffffff>

<DIV><FONT face=3DArial size=3D2>Really.&nbsp; Mike this is really great =

stuff.</FONT></DIV>

<DIV><FONT face=3DArial size=3D2>I can't wait to&nbsp;hear&nbsp;these =  
two=20

updates.</FONT></DIV>

<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>

<DIV><FONT face=3DArial size=3D2>I will donate if there is a way to do=20  
it.</FONT></DIV>

<DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>

<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>

<DIV>&nbsp;</DIV>

<BLOCKQUOTE=20

style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">

<DIV>"W. Mark Wilson" &lt;<A=20

=

href=3D"mailto:xpam\_mark@avidrecording">xpam\_mark@avidrecording</A>&gt; =  
wrote in=20

message <A =

href=3D"news:46f87635@linux">news:46f87635@linux</A>...</DIV>Awesome=20

Mikel&nbsp; Where do we send a Paypal pmt?<BR><BR>W. Mark =

Wilson<BR><BR>"Mike=20

Audet" &lt;mike@.....&gt; wrote in message <A=20

=

href=3D"news:46f86942\$1@linux">news:46f86942\$1@linux</A>...<BR>&gt;<BR>&g=  
t; Yo,=20

yo!<BR>&gt;<BR>&gt; Attached is a new version of the =

FreakQ!<BR>&gt;<BR>&gt;=20

New in this release (both mono and stereo =

versions):<BR>&gt;<BR>&gt;&nbsp; -=20

All Mid and Hi Shelf EQs now have selectable frequency points.<BR>&gt; =

- I've=20

added output metering to check for too much gain building up =

from<BR>&gt;=20



>  
>W. Mark Wilson  
>  
>"Mike Audet" <mike@.....> wrote in message news:46f86942\$1 @linux...  
>>  
>> Yo, yo!  
>>  
>> Attached is a new version of the FreakQ!  
>>  
>> New in this release (both mono and stereo versions):  
>>  
>> - All Mid and Hi Shelf EQs now have selectable frequency points.  
>> - I've added output metering to check for too much gain building up from  
>> boosting bands (and because meters look cool).  
>> - The low shelf has been removed because of a problem in the dsp code  
that  
>> I don't know how to fix that caused massive distortion when it was used.  
>>  
>>  
>> I had hoped to make this eq fully parametric by having a width control,  
  
>> but  
>> it either isn't possible, or I just don't understand the math going on  
in  
>> the algo enough to make it happen. A friend of mine who is far better  
in  
>> math than I am has offered to look it over. If there is a breakthrough,  
>> I'll implement it.  
>>  
>> Let me know what you think!  
>>  
>> All the best,  
>> Mike  
>>  
>>  
>>  
>>  
>  
>

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [mike audet\[1\]](#) on Tue, 25 Sep 2007 09:02:26 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Mark,

Donations are always welcome. :) Thanks so much for offering. It's really



great to hear that I'm making a real contribution to the community. I was a little afraid I was too late.

You can donate via paypal with my email address: mike AT mikeaudet dot com.

All the best!

Mike

"W. Mark Wilson" <xpam\_mark@avidrecording> wrote:

>Awesome Mike! Where do we send a Paypal pmt?

>

>W. Mark Wilson

>

>"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...

>>

>> Yo, yo!

>>

>> Attached is a new version of the FreakQ!

>>

>> New in this release (both mono and stereo versions):

>>

>> - All Mid and Hi Shelf EQs now have selectable frequency points.

>> - I've added output metering to check for too much gain building up from  
>> boosting bands (and because meters look cool).

>> - The low shelf has been removed because of a problem in the dsp code  
that

>> I don't know how to fix that caused massive distortion when it was used.

>>

>>

>> I had hoped to make this eq fully parametric by having a width control,

>> but

>> it either isn't possible, or I just don't understand the math going on  
in

>> the algo enough to make it happen. A friend of mine who is far better  
in

>> math than I am has offered to look it over. If there is a breakthrough,

>> I'll implement it.

>>

>> Let me know what you think!

>>

>> All the best,

>> Mike

>>

>>

>>  
>>  
>  
>

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*

Posted by [mike audet\[1\]](#) on Tue, 25 Sep 2007 09:02:26 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi Mark,

Donations are always welcome. :) Thanks so much for offering. It's really great to hear that I'm making a real contribution to the community. I was a little afraid I was too late.

You can donate via paypal with my email address: mike AT mikeaudet dot com.

All the best!

Mike

"W. Mark Wilson" <xpam\_mark@avidrecording> wrote:

>Awesome Mike! Where do we send a Paypal pmt?

>

>W. Mark Wilson

>

>"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...

>>

>> Yo, yo!

>>

>> Attached is a new version of the FreakQ!

>>

>> New in this release (both mono and stereo versions):

>>

>> - All Mid and Hi Shelf EQs now have selectable frequency points.

>> - I've added output metering to check for too much gain building up from  
>> boosting bands (and because meters look cool).

>> - The low shelf has been removed because of a problem in the dsp code  
that

>> I don't know how to fix that caused massive distortion when it was used.

>>

>>

>> I had hoped to make this eq fully parametric by having a width control,

>> but

>> it either isn't possible, or I just don't understand the math going on  
in  
>> the algo enough to make it happen. A friend of mine who is far better  
in  
>> math than I am has offered to look it over. If there is a breakthrough,  
>> I'll implement it.  
>>  
>> Let me know what you think!  
>>  
>> All the best,  
>> Mike  
>>  
>>  
>>  
>>  
>  
>

---

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [mike audet\[1\]](#) on Tue, 25 Sep 2007 09:02:26 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Mark,

Donations are always welcome. :) Thanks so much for offering. It's really great to hear that I'm making a real contribution to the community. I was a little afraid I was too late.

You can donate via paypal with my email address: mike AT mikeaudet dot com.

All the best!

Mike

"W. Mark Wilson" <[xpam\\_mark@avidrecording](mailto:xpam_mark@avidrecording)> wrote:

>Awesome Mike! Where do we send a Paypal pmt?

>

>W. Mark Wilson

>

>"Mike Audet" <[mike@.....](mailto:mike@.....)> wrote in message [news:46f86942\\$1@linux...](news:46f86942$1@linux...)

>>

>> Yo, yo!

>>

>> Attached is a new version of the FreakQ!

>>

>> New in this release (both mono and stereo versions):  
>>  
>> - All Mid and Hi Shelf EQs now have selectable frequency points.  
>> - I've added output metering to check for too much gain building up from  
>> boosting bands (and because meters look cool).  
>> - The low shelf has been removed because of a problem in the dsp code  
that  
>> I don't know how to fix that caused massive distortion when it was used.  
>>  
>>  
>> I had hoped to make this eq fully parametric by having a width control,  
  
>> but  
>> it either isn't possible, or I just don't understand the math going on  
in  
>> the algo enough to make it happen. A friend of mine who is far better  
in  
>> math than I am has offered to look it over. If there is a breakthrough,  
>> I'll implement it.  
>>  
>> Let me know what you think!  
>>  
>> All the best,  
>> Mike  
>>  
>>  
>>  
>>  
>  
>

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [mike audet\[1\]](#) on Tue, 25 Sep 2007 09:08:33 GMT  
[View Forum Message](#) <> [Reply to Message](#)

Hi Tom,

I'm so glad to hear that this stuff will be useful to you.

Donations are always welcome!

Paypal address: mike AT mikeaudet dot com.

I'm actually planning to set up a mini site to host this stuff. I registered ensoniq.ca, but I'm just so busy that it may take a little while to get to it. I'd rather spend my time working on a new plug. :)



Speaking of new plugs, there are some unreleased algos in the code Chuck posted. I'll be turning my attention to those next. I can't promise anything because if there are dsp code bugs, there's not much I can do. But, I'm very hopeful!

All the best,

Mike

"Tom Bruhl" <arpeggio@comcast.net> wrote:

>

>

>Really. Mike this is really great stuff.

>I can't wait to hear these two updates.

>

>I will donate if there is a way to do it.

>Tom

>

>

> "W. Mark Wilson" <xpam\_mark@avidrecording> wrote in message =

>news:46f87635@linux...

> Awesome Mike! Where do we send a Paypal pmt?

>

> W. Mark Wilson

>

> "Mike Audet" <mike@.....> wrote in message news:46f86942\$1 @linux...

> >

> > Yo, yo!

> >

> > Attached is a new version of the FreakQ!

> >

> > New in this release (both mono and stereo versions):

> >

> > - All Mid and Hi Shelf EQs now have selectable frequency points.

> > - I've added output metering to check for too much gain building up

=

>from

> > boosting bands (and because meters look cool).

> > - The low shelf has been removed because of a problem in the dsp =

>code that

> > I don't know how to fix that caused massive distortion when it was =

>used.

> >

> >

> > I had hoped to make this eq fully parametric by having a width =

>control,=20

> > but

> > it either isn't possible, or I just don't understand the math going  
 =  
 >on in  
 > > the algo enough to make it happen. A friend of mine who is far =  
 >better in  
 > > math than I am has offered to look it over. If there is a =  
 >breakthrough,  
 > > I'll implement it.  
 > >  
 > > Let me know what you think!  
 > >  
 > > All the best,  
 > > Mike  
 > >  
 > >  
 > >  
 > >=20  
 >  
 >  
 >  
 >  
 >I choose Polesoft Lockspam to fight spam, and you?  
 ><http://www.polesoft.com/refer.html>  
 >  
 ><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">  
 ><HTML><HEAD>  
 ><META http-equiv=3DContent-Type content=3D"text/html; =  
 >charset=3Diso-8859-1">  
 ><META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>  
 ><STYLE></STYLE>  
 ></HEAD>  
 ><BODY bgColor=3D#ffffff>  
 ><DIV><FONT face=3DArial size=3D2>Really. Mike this is really great =  
 >  
 >stuff.</FONT></DIV>  
 ><DIV><FONT face=3DArial size=3D2>I can't wait to hear these =  
 >two=20  
 >updates.</FONT></DIV>  
 ><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
 ><DIV><FONT face=3DArial size=3D2>I will donate if there is a way to do=20  
 >it.</FONT></DIV>  
 ><DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>  
 ><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
 ><DIV> </DIV>  
 ><BLOCKQUOTE=20  
 >style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
 >BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">  
 > <DIV>"W. Mark Wilson" <<A=20

> =  
>href=3D"mailto:xpam\_mark@avidrecording">xpam\_mark@avidrecording</A>> =  
>wrote in=20  
> message <A =  
>href=3D"news:46f87635@linux">news:46f87635@linux</A>...</DIV>Awesome=20  
> Mike! Where do we send a Paypal pmt?<BR><BR>W. Mark =  
>Wilson<BR><BR>"Mike=20  
> Audet" <mike@.....> wrote in message <A=20  
> =  
>href=3D"news:46f86942\$1@linux">news:46f86942\$1@linux</A>...<BR>><BR>&g=  
>t; Yo,=20  
> yo!<BR>><BR>> Attached is a new version of the =  
>FreakQ!<BR>><BR>>=20  
> New in this release (both mono and stereo =  
>versions):<BR>><BR>> -=20  
> All Mid and Hi Shelf EQs now have selectable frequency points.<BR>> =  
>- I've=20  
> added output metering to check for too much gain building up =  
>from<BR>>=20  
> boosting bands (and because meters look cool).<BR>> - The low =  
>shelf=20  
> has been removed because of a problem in the dsp code that<BR>> I =  
>don't=20  
> know how to fix that caused massive distortion when it was=20  
> used.<BR>><BR>><BR>> I had hoped to make this eq fully =  
>parametric by=20  
> having a width control, <BR>> but<BR>> it either isn't possible, =  
>or I=20  
> just don't understand the math going on in<BR>> the algo enough to =  
>make it=20  
> happen. A friend of mine who is far better in<BR>> math than I am =  
>has=20  
> offered to look it over. If there is a breakthrough,<BR>> =  
>I'll=20  
> implement it.<BR>><BR>> Let me know what you =  
>think!<BR>><BR>> All=20  
> the best,<BR>> Mike<BR>><BR>><BR>><BR>> =  
><BR><BR></BLOCKQUOTE>  
><DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
>and=20  
>you?<BR><A=20  
>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
>.html</A> </FONT></DIV></BODY></HTML>  
>  
>

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*

Posted by [mike audet\[1\]](#) on Tue, 25 Sep 2007 09:08:33 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi Tom,

I'm so glad to hear that this stuff will be useful to you.

Donations are always welcome!

Paypal address: mike AT mikeaudet dot com.

I'm actually planning to set up a mini site to host this stuff. I registered ensoniq.ca, but I'm just so busy that it may take a little while to get to it. I'd rather spend my time working on a new plug. :)

Speaking of new plugs, there are some unreleased algos in the code Chuck posted. I'll be turning my attention to those next. I can't promise anything because if there are dsp code bugs, there's not much I can do. But, I'm very hopeful!

All the best,

Mike

"Tom Bruhl" <arpeggio@comcast.net> wrote:

>

>

>Really. Mike this is really great stuff.

>I can't wait to hear these two updates.

>

>I will donate if there is a way to do it.

>Tom

>

>

> "W. Mark Wilson" <xpam\_mark@avidrecording> wrote in message =

>news:46f87635@linux...

> Awesome Mike! Where do we send a Paypal pmt?

>

> W. Mark Wilson

>

> "Mike Audet" <mike@.....> wrote in message news:46f86942\$1 @linux...

> >

> > Yo, yo!

> >

> > Attached is a new version of the FreakQ!

> >

> > New in this release (both mono and stereo versions):



> >  
> > - All Mid and Hi Shelf EQs now have selectable frequency points.  
> > - I've added output metering to check for too much gain building up  
=  
>from  
> > boosting bands (and because meters look cool).  
> > - The low shelf has been removed because of a problem in the dsp =  
>code that  
> > I don't know how to fix that caused massive distortion when it was =  
>used.  
> >  
> >  
> > I had hoped to make this eq fully parametric by having a width =  
>control,=20  
> > but  
> > it either isn't possible, or I just don't understand the math going  
=  
>on in  
> > the algo enough to make it happen. A friend of mine who is far =  
>better in  
> > math than I am has offered to look it over. If there is a =  
>breakthrough,  
> > I'll implement it.  
> >  
> > Let me know what you think!  
> >  
> > All the best,  
> > Mike  
> >  
> >  
> >  
> >=20  
>  
>  
>  
>  
>  
>I choose Polesoft Lockspam to fight spam, and you?  
><http://www.polesoft.com/refer.html>  
>  
><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">  
><HTML><HEAD>  
><META http-equiv=3DContent-Type content=3D"text/html; =  
>charset=3Diso-8859-1">  
><META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>  
><STYLE></STYLE>  
></HEAD>  
><BODY bgColor=3D#ffffff>  
><DIV><FONT face=3DArial size=3D2>Really. Mike this is really great =

```
>
>stuff.</FONT></DIV>
><DIV><FONT face=3DArial size=3D2>I can't wait to hear these =
>two=20
>updates.</FONT></DIV>
><DIV><FONT face=3DArial size=3D2></FONT> </DIV>
><DIV><FONT face=3DArial size=3D2>I will donate if there is a way to do=20
>it.</FONT></DIV>
><DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>
><DIV><FONT face=3DArial size=3D2></FONT> </DIV>
><DIV> </DIV>
><BLOCKQUOTE=20
>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
> <DIV>"W. Mark Wilson" <<A=20
> =
>href=3D"mailto:xpam_mark@avidrecording">xpam_mark@avidrecording</A>> =
>wrote in=20
> message <A =
>href=3D"news:46f87635@linux">news:46f87635@linux</A>...</DIV>Awesome=20
> Mike! Where do we send a Paypal pmt?<BR><BR>W. Mark =
>Wilson<BR><BR>"Mike=20
> Audet" <mike@.....> wrote in message <A=20
> =
>href=3D"news:46f86942$1@linux">news:46f86942$1@linux</A>...<BR>><BR>&g=
>t; Yo,=20
> yo!<BR>><BR>> Attached is a new version of the =
>FreakQ!<BR>><BR>>=20
> New in this release (both mono and stereo =
>versions):<BR>><BR>> -=20
> All Mid and Hi Shelf EQs now have selectable frequency points.<BR>> =
>- I've=20
> added output metering to check for too much gain building up =
>from<BR>>=20
> boosting bands (and because meters look cool).<BR>> - The low =
>shelf=20
> has been removed because of a problem in the dsp code that<BR>> I =
>don't=20
> know how to fix that caused massive distortion when it was=20
> used.<BR>><BR>><BR>> I had hoped to make this eq fully =
>parametric by=20
> having a width control, <BR>> but<BR>> it either isn't possible, =
>or I=20
> just don't understand the math going on in<BR>> the algo enough to =
>make it=20
> happen. A friend of mine who is far better in<BR>> math than I am =
>has=20
> offered to look it over. If there is a breakthrough,<BR>> =
```

>I'll=20  
> implement it.<BR>><BR>> Let me know what you =  
>think!<BR>><BR>> All=20  
> the best,<BR>> Mike<BR>><BR>><BR>><BR>> =  
><BR><BR></BLOCKQUOTE>  
><DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
>and=20  
>you?<BR><A=20  
>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
>.html</A> </FONT></DIV></BODY></HTML>  
>  
>

---

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [mike audet\[1\]](#) on Tue, 25 Sep 2007 09:08:33 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Tom,

I'm so glad to hear that this stuff will be useful to you.

Donations are always welcome!

Paypal address: mike AT mikeaudet dot com.

I'm actually planning to set up a mini site to host this stuff. I registered ensoniq.ca, but I'm just so busy that it may take a little while to get to it. I'd rather spend my time working on a new plug. :)

Speaking of new plugs, there are some unreleased algos in the code Chuck posted. I'll be turning my attention to those next. I can't promise anything because if there are dsp code bugs, there's not much I can do. But, I'm very hopeful!

All the best,

Mike

"Tom Bruhl" <arpeggio@comcast.net> wrote:

>  
>  
>Really. Mike this is really great stuff.  
>I can't wait to hear these two updates.  
>  
>I will donate if there is a way to do it.  
>Tom

>  
>  
> "W. Mark Wilson" <xpam\_mark@avidrecording> wrote in message =  
>news:46f87635@linux...  
> Awesome Mike! Where do we send a Paypal pmt?  
>  
> W. Mark Wilson  
>  
> "Mike Audet" <mike@.....> wrote in message news:46f86942\$1 @linux...  
> >  
> > Yo, yo!  
> >  
> > Attached is a new version of the FreakQ!  
> >  
> > New in this release (both mono and stereo versions):  
> >  
> > - All Mid and Hi Shelf EQs now have selectable frequency points.  
> > - I've added output metering to check for too much gain building up  
=  
>from  
> > boosting bands (and because meters look cool).  
> > - The low shelf has been removed because of a problem in the dsp =  
>code that  
> > I don't know how to fix that caused massive distortion when it was =  
>used.  
> >  
> >  
> > I had hoped to make this eq fully parametric by having a width =  
>control,=20  
> > but  
> > it either isn't possible, or I just don't understand the math going  
=  
>on in  
> > the algo enough to make it happen. A friend of mine who is far =  
>better in  
> > math than I am has offered to look it over. If there is a =  
>breakthrough,  
> > I'll implement it.  
> >  
> > Let me know what you think!  
> >  
> > All the best,  
> > Mike  
> >  
> >  
> >  
> >=20  
>



```

>
>
>
>I choose Polesoft Lockspam to fight spam, and you?
>http://www.polesoft.com/refer.html
>
><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
><HTML><HEAD>
><META http-equiv=3DContent-Type content=3D"text/html; =
>charset=3Diso-8859-1">
><META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>
><STYLE></STYLE>
></HEAD>
><BODY bgColor=3D#ffffff>
><DIV><FONT face=3DArial size=3D2>Really. Mike this is really great =
>
>stuff.</FONT></DIV>
><DIV><FONT face=3DArial size=3D2>I can't wait to hear these =
>two=20
>updates.</FONT></DIV>
><DIV><FONT face=3DArial size=3D2></FONT> </DIV>
><DIV><FONT face=3DArial size=3D2>I will donate if there is a way to do=20
>it.</FONT></DIV>
><DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>
><DIV><FONT face=3DArial size=3D2></FONT> </DIV>
><DIV> </DIV>
><BLOCKQUOTE=20
>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =
>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">
> <DIV>"W. Mark Wilson" <<A=20
> =
>href=3D"mailto:xpam_mark@avidrecording">xpam_mark@avidrecording</A>> =
>wrote in=20
> message <A =
>href=3D"news:46f87635@linux">news:46f87635@linux</A>...</DIV>Awesome=20
> Mike! Where do we send a Paypal pmt?<BR><BR>W. Mark =
>Wilson<BR><BR>"Mike=20
> Audet" <mike@.....> wrote in message <A=20
> =
>href=3D"news:46f86942$1@linux">news:46f86942$1@linux</A>...<BR>><BR>&g=
>t; Yo,=20
> yo!<BR>><BR>> Attached is a new version of the =
>FreakQ!<BR>><BR>>=20
> New in this release (both mono and stereo =
>versions):<BR>><BR>> -=20
> All Mid and Hi Shelf EQs now have selectable frequency points.<BR>> =
>- I've=20
> added output metering to check for too much gain building up =

```

>from<BR>>=20  
> boosting bands (and because meters look cool).<BR>> - The low =  
>shelf=20  
> has been removed because of a problem in the dsp code that<BR>> I =  
>don't=20  
> know how to fix that caused massive distortion when it was=20  
> used.<BR>><BR>><BR>> I had hoped to make this eq fully =  
>parametric by=20  
> having a width control, <BR>> but<BR>> it either isn't possible, =  
>or I=20  
> just don't understand the math going on in<BR>> the algo enough to =  
>make it=20  
> happen. A friend of mine who is far better in<BR>> math than I am =  
>has=20  
> offered to look it over. If there is a breakthrough,<BR>> =  
>I'll=20  
> implement it.<BR>><BR>> Let me know what you =  
>think!<BR>><BR>> All=20  
> the best,<BR>> Mike<BR>><BR>><BR>><BR>> =  
><BR><BR></BLOCKQUOTE>  
><DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
>and=20  
>you?<BR><A=20  
>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
>.html</A> </FONT></DIV></BODY></HTML>  
>  
>

---

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [mike audet\[1\]](#) on Tue, 25 Sep 2007 09:08:33 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Tom,

I'm so glad to hear that this stuff will be useful to you.

Donations are always welcome!

Paypal address: mike AT mikeaudet dot com.

I'm actually planning to set up a mini site to host this stuff. I registered ensoniq.ca, but I'm just so busy that it may take a little while to get to it. I'd rather spend my time working on a new plug. :)

Speaking of new plugs, there are some unreleased algos in the code Chuck posted. I'll be turning my attention to those next. I can't promise anything because if there are dsp code bugs, there's not much I can do. But, I'm

very hopeful!

All the best,

Mike

"Tom Bruhl" <arpeggio@comcast.net> wrote:

>  
>  
>Really. Mike this is really great stuff.  
>I can't wait to hear these two updates.  
>  
>I will donate if there is a way to do it.  
>Tom  
>  
>  
> "W. Mark Wilson" <xpam\_mark@avidrecording> wrote in message =  
>news:46f87635@linux...  
> Awesome Mike! Where do we send a Paypal pmt?  
>  
> W. Mark Wilson  
>  
> "Mike Audet" <mike@.....> wrote in message news:46f86942\$1 @linux...  
> >  
> > Yo, yo!  
> >  
> > Attached is a new version of the FreakQ!  
> >  
> > New in this release (both mono and stereo versions):  
> >  
> > - All Mid and Hi Shelf EQs now have selectable frequency points.  
> > - I've added output metering to check for too much gain building up  
=  
>from  
> > boosting bands (and because meters look cool).  
> > - The low shelf has been removed because of a problem in the dsp =  
>code that  
> > I don't know how to fix that caused massive distortion when it was =  
>used.  
> >  
> >  
> > I had hoped to make this eq fully parametric by having a width =  
>control,=20  
> > but  
> > it either isn't possible, or I just don't understand the math going  
=  
>on in

> > the algo enough to make it happen. A friend of mine who is far =  
>better in  
> > math than I am has offered to look it over. If there is a =  
>breakthrough,  
> > I'll implement it.  
> >  
> > Let me know what you think!  
> >  
> > All the best,  
> > Mike  
> >  
> >  
> >  
> >=20  
>  
>  
>  
>  
>I choose Polesoft Lockspam to fight spam, and you?  
><http://www.polesoft.com/refer.html>  
>  
><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">  
><HTML><HEAD>  
><META http-equiv=3DContent-Type content=3D"text/html; =  
>charset=3Diso-8859-1">  
><META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>  
><STYLE></STYLE>  
></HEAD>  
><BODY bgColor=3D#ffffff>  
><DIV><FONT face=3DArial size=3D2>Really. Mike this is really great =  
>  
>stuff.</FONT></DIV>  
><DIV><FONT face=3DArial size=3D2>I can't wait to hear these =  
>two=20  
>updates.</FONT></DIV>  
><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
><DIV><FONT face=3DArial size=3D2>I will donate if there is a way to do=20  
>it.</FONT></DIV>  
><DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>  
><DIV><FONT face=3DArial size=3D2></FONT> </DIV>  
><DIV> </DIV>  
><BLOCKQUOTE=20  
>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =  
>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">  
> <DIV>"W. Mark Wilson" <<A=20  
> =  
>href=3D"mailto:xpam\_mark@avidrecording">xpam\_mark@avidrecording</A>> =  
>wrote in=20

> message <A =  
>href=3D"news:46f87635@linux">news:46f87635@linux</A>...</DIV>Awesome=20  
> Mike! Where do we send a Paypal pmt?<BR><BR>W. Mark =  
>Wilson<BR><BR>"Mike=20  
> Audet" <mike@.....> wrote in message <A=20  
> =  
>href=3D"news:46f86942\$1@linux">news:46f86942\$1@linux</A>...<BR>><BR>&g=  
>t; Yo,=20  
> yo!<BR>><BR>> Attached is a new version of the =  
>FreakQ!<BR>><BR>>=20  
> New in this release (both mono and stereo =  
>versions):<BR>><BR>> -=20  
> All Mid and Hi Shelf EQs now have selectable frequency points.<BR>> =  
>- I've=20  
> added output metering to check for too much gain building up =  
>from<BR>>=20  
> boosting bands (and because meters look cool).<BR>> - The low =  
>shelf=20  
> has been removed because of a problem in the dsp code that<BR>> I =  
>don't=20  
> know how to fix that caused massive distortion when it was=20  
> used.<BR>><BR>><BR>> I had hoped to make this eq fully =  
>parametric by=20  
> having a width control, <BR>> but<BR>> it either isn't possible, =  
>or I=20  
> just don't understand the math going on in<BR>> the algo enough to =  
>make it=20  
> happen. A friend of mine who is far better in<BR>> math than I am =  
>has=20  
> offered to look it over. If there is a breakthrough,<BR>> =  
>I'll=20  
> implement it.<BR>><BR>> Let me know what you =  
>think!<BR>><BR>> All=20  
> the best,<BR>> Mike<BR>><BR>><BR>><BR>> =  
><BR><BR></BLOCKQUOTE>  
><DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
>and=20  
>you?<BR><A=20  
>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
>.html</A> </FONT></DIV></BODY></HTML>  
>  
>

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [emarenot](#) on Wed, 26 Sep 2007 06:23:00 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hey Mike  
Thank you for your work. Can't wait to try out the Freak.  
Cheers  
MR

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...  
>  
> Yo, yo!  
>  
> Attached is a new version of the FreakQ!  
>  
> New in this release (both mono and stereo versions):  
>  
> - All Mid and Hi Shelf EQs now have selectable frequency points.  
> - I've added output metering to check for too much gain building up from  
> boosting bands (and because meters look cool).  
> - The low shelf has been removed because of a problem in the dsp code  
that  
> I don't know how to fix that caused massive distortion when it was used.  
>  
>  
> I had hoped to make this eq fully parametric by having a width control,  
but  
> it either isn't possible, or I just don't understand the math going on in  
> the algo enough to make it happen. A friend of mine who is far better in  
> math than I am has offered to look it over. If there is a breakthrough,  
> I'll implement it.  
>  
> Let me know what you think!  
>  
> All the best,  
> Mike  
>  
>  
>  
>

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [Tom Bruhl](#) on Thu, 27 Sep 2007 15:50:45 GMT  
[View Forum Message](#) <> [Reply to Message](#)

This is a multi-part message in MIME format.

-----=\_NextPart\_000\_0117\_01C800FC.A3B20290  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable



I have donated a small morsel of funds to the Mike Audet Project  
at mike AT mikeaudet dot com .  
I know Mike has plans to do many things. It is nice to know new things=20  
still materialize for Paris after it has been long forgotten by most. =20

All that can should take part in Mike's effort by donating a little  
something. If we all do, it might add up to something. He's working =  
very  
hard at it.  
Tom

"Mike R." <emarenot@yahoo.com> wrote in message news:46f9d0ac@linux...  
Hey Mike  
Thank you for your work. Can't wait to try out the Freak.  
Cheers  
MR

"Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...  
>  
> Yo, yo!  
>  
> Attached is a new version of the FreakQ!  
>  
> New in this release (both mono and stereo versions):  
>  
> - All Mid and Hi Shelf EQs now have selectable frequency points.  
> - I've added output metering to check for too much gain building up =  
from  
> boosting bands (and because meters look cool).  
> - The low shelf has been removed because of a problem in the dsp =  
code  
that  
> I don't know how to fix that caused massive distortion when it was =  
used.  
>  
>  
> I had hoped to make this eq fully parametric by having a width =  
control,  
but  
> it either isn't possible, or I just don't understand the math going =  
on in  
> the algo enough to make it happen. A friend of mine who is far =  
better in  
> math than I am has offered to look it over. If there is a =  
breakthrough,  
> I'll implement it.



something.&nbsp; He's working very hard at it.  
Tom  
&nbsp;

<DIV>"Mike R." &lt;  
href="mailto:emarenot@yahoo.com">emarenot@yahoo.com</A>&gt; wrote in =  
message=  
<A href="news:46f9d0ac@linux">news:46f9d0ac@linux</A>...</DIV>Hey=  
Mike<BR>Thank you for your work.&nbsp; Can't wait to try out the=  
Freak.<BR>Cheers<BR>MR<BR><BR>"Mike Audet" &lt;mike@.....&gt; wrote in =  
message=  
<A =  
href="news:46f86942\$1 @linux">news:46f86942\$1 @linux</A>...<BR>&gt;<BR>&g=  
t;=  
Yo, yo!<BR>&gt;<BR>&gt; Attached is a new version of the=  
FreakQ!<BR>&gt;<BR>&gt; New in this release (both mono and stereo=  
versions):<BR>&gt;<BR>&gt;&nbsp;&nbsp;  - All Mid and Hi Shelf EQs now =  
have=  
selectable frequency points.<BR>&gt;&nbsp;   - I've added output =  
metering to=  
check for too much gain building up from<BR>&gt; boosting&nbsp;   bands =  
(and=  
because meters look cool).<BR>&gt;&nbsp;   - The low shelf has been =  
removed=  
because of a problem in the dsp code<BR>that<BR>&gt; I don't know how =  
to fix=  
that caused massive distortion when it was =  
used.<BR>&gt;<BR>&gt;<BR>&gt; I had=  
hoped to make this eq fully parametric by having a width=  
control,<BR>but<BR>&gt; it either isn't possible, or I just don't =  
understand=  
the math going on in<BR>&gt; the algo enough to make it happen. A =  
friend of=  
mine who is far better in<BR>&gt; math than I am has offered to look =  
it=  
over.&nbsp; If there is a breakthrough,<BR>&gt; I'll implement=  
it.<BR>&gt;<BR>&gt; Let me know what you think!<BR>&gt;<BR>&gt; All =  
the=  
best,<BR>&gt; =  
Mike<BR>&gt;<BR>&gt;<BR>&gt;<BR>&gt; <BR><BR></BLOCKQUOTE>  
<DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
and=  
you?<BR><A=20  
href="http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=

..html</A>&nbsp;&nbsp;&nbsp;&nbsp;</FONT></DIV></BODY ></HTML>

-----=\_NextPart\_000\_0117\_01C800FC.A3B20290--

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*

Posted by [Dimitrios](#) on Tue, 02 Oct 2007 10:43:59 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

HEY you freaking guy MIKE !!

I missed your post !

Wow that is what I asked for some weeks before !

I will donate something to you ,not much right now but will follow more !

FreakQ is great now, would be perfect if you could find a Q factor but anyway

this is a BIG update to the other one !!

Heads up !!

Dimitrios

"Tom Bruhl" <[arpeggio@comcast.net](mailto:arpeggio@comcast.net)> wrote:

>

>

>I have donated a small morsel of funds to the Mike Audet Project

>at [mike AT mikeaudet dot com](mailto:mike AT mikeaudet dot com) .

>I know Mike has plans to do many things. It is nice to know new things=20

>still materialize for Paris after it has been long forgotten by most. =20

>

>All that can should take part in Mike's effort by donating a little

>something. If we all do, it might add up to something. He's working =

>very

>hard at it.

>Tom

>

>

> "Mike R." <[emarenot@yahoo.com](mailto:emarenot@yahoo.com)> wrote in message <news:46f9d0ac@linux...>

> Hey Mike

> Thank you for your work. Can't wait to try out the Freak.

> Cheers

> MR

>

> "Mike Audet" <[mike@.....](mailto:mike@.....)> wrote in message [news:46f86942\\$1@linux...](news:46f86942$1@linux...)

> >

> > Yo, yo!

> >

> > Attached is a new version of the FreakQ!

> >

> > New in this release (both mono and stereo versions):

> >

> > - All Mid and Hi Shelf EQs now have selectable frequency points.

> > - I've added output metering to check for too much gain building up  
=  
>from  
> > boosting bands (and because meters look cool).  
> > - The low shelf has been removed because of a problem in the dsp =  
>code  
> that  
> > I don't know how to fix that caused massive distortion when it was =  
>used.  
> >  
> >  
> > I had hoped to make this eq fully parametric by having a width =  
>control,  
> but  
> > it either isn't possible, or I just don't understand the math going  
=  
>on in  
> > the algo enough to make it happen. A friend of mine who is far =  
>better in  
> > math than I am has offered to look it over. If there is a =  
>breakthrough,  
> > I'll implement it.  
> >  
> > Let me know what you think!  
> >  
> > All the best,  
> > Mike  
> >  
> >  
> >  
> >  
>  
>  
>  
>  
>  
>I choose Polesoft Lockspam to fight spam, and you?  
><http://www.polesoft.com/refer.html>  
>  
><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">  
><HTML><HEAD>  
><META http-equiv=3DContent-Type content=3D"text/html; =  
>charset=3Diso-8859-1">  
><META content=3D"MSHTML 6.00.2800.1400" name=3DGENERATOR>  
><STYLE></STYLE>  
></HEAD>  
><BODY bgColor=3D#ffffff>  
><DIV><FONT face=3DArial size=3D2>I have donated a small morsel =

>Mike Audet Project</FONT></DIV>

>.</FONT><BR>I know=20

>size=3D2>It is=20

>nice to know new things </FONT></DIV>

><DIV><FONT face=3DArial size=3D2>still materialize for Paris after it =

>has=20

></FONT></DIV>

><DIV><FONT face=3DArial size=3D2>All that can should take part in Mike's

=

>effort by=20

>donating a little</FONT></DIV>

>add up to=20

><DIV><FONT face=3DArial size=3D2>hard at it.</FONT></DIV>

><DIV><FONT face=3DArial size=3D2>Tom</FONT></DIV>

><BLOCKQUOTE=20

>style=3D"PADDING-RIGHT: 0px; PADDING-LEFT: 5px; MARGIN-LEFT: 5px; =

>BORDER-LEFT: #000000 2px solid; MARGIN-RIGHT: 0px">

> <DIV>"Mike R." <<A=20

> href=3D"mailto:emarenot@yahoo.com">emarenot@yahoo.com</A>> wrote in =

>message=20

> <A href=3D"news:46f9d0ac@linux">news:46f9d0ac@linux</A>...</DIV>Hey=20

> Freak.<BR>Cheers<BR>MR<BR><BR>"Mike Audet" <mike@.....> wrote in =

>message=20

> <A =

>href=3D"news:46f86942\$1@linux">news:46f86942\$1@linux</A>...<BR>><BR>&g=

>t;=20

> Yo, yo!<BR>><BR>> Attached is a new version of the=20

> FreakQ!<BR>><BR>> New in this release (both mono and stereo=20

>have=20

>metering to=20

>(and=20

>removed=20

> because of a problem in the dsp code<BR>that<BR>> I don't know how =



>to fix=20  
> that caused massive distortion when it was =  
>used.<BR><BR><BR>> I had=20  
> hoped to make this eq fully parametric by having a width=20  
> control,<BR>but<BR>> it either isn't possible, or I just don't =  
>understand=20  
> the math going on in<BR>> the algo enough to make it happen. A =  
>friend of=20  
> mine who is far better in<BR>> math than I am has offered to look =  
>it=20  
  
> it.<BR><BR>> Let me know what you think!<BR><BR>> All =  
>the=20  
> best,<BR>> =  
>Mike<BR><BR><BR><BR><BR><BR></BLOCKQUOTE>  
><DIV><FONT size=3D2><BR><BR>I choose Polesoft Lockspam to fight spam, =  
>and=20  
>you?<BR><A=20  
>href=3D"http://www.polesoft.com/refer.html">http://www.polesoft.com/refer=  
  
>  
>

---

---

Subject: Re: \*\*\*\*\*FreakQ Update\*\*\*\*\*  
Posted by [Aaron Allen](#) on Thu, 11 Oct 2007 04:44:11 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Works great so far, tested with it and all plugs to current before the ducker was released tonight. Gotta get some resemblance of sleep, but I'll try that asap also.  
AA

>> "Mike Audet" <mike@.....> wrote in message news:46f86942\$1@linux...  
>> >  
>> > Yo, yo!  
>> >  
>> > Attached is a new version of the FreakQ!  
>> >  
>> > New in this release (both mono and stereo versions):  
>> >  
>> > - All Mid and Hi Shelf EQs now have selectable frequency points.  
>> > - I've added output metering to check for too much gain building up  
> =  
>>from  
>> > boosting bands (and because meters look cool).  
>> > - The low shelf has been removed because of a problem in the dsp =  
>>code

>> that  
>> > I don't know how to fix that caused massive distortion when it was =  
>>used.  
>> >  
>> >  
>> > I had hoped to make this eq fully parametric by having a width =  
>>control,  
>> but  
>> > it either isn't possible, or I just don't understand the math going  
> =  
>>on in  
>> > the algo enough to make it happen. A friend of mine who is far =  
>>better in  
>> > math than I am has offered to look it over. If there is a =  
>>breakthrough,  
>> > I'll implement it.  
>> >  
>> > Let me know what you think!  
>> >  
>> > All the best,  
>> > Mike

---