

FACE ON MARS Michael Ward-Bergeman  
Csound Orchestra File

sr = 44100  
kr = 2205  
ksmps = 20  
nchnls = 2

garvbsig1 init 0  
garvbsig2 init 0  
garvbsig3 init 0  
garvbsig4 init 0

instr 1  
idb=ampdb(p4)  
isc=idb\*.333  
k1 line 40,p3,800  
k2 line 440,p3,220  
k3 linen isc,p6,p3,p7  
k4 line 800,p3,40  
k5 line 220,p3,440  
k6 linen isc,p6,p3,p7  
a5 oscil k3,p8,p5  
a6 oscil k3,p8\*.999,p5  
a7 oscil k3,p8\*1.001,p5  
a1=a5+a6+a7  
a8 oscil k6,p9,p5  
a9 oscil k6,p9\*.999,p5  
a10 oscil k6,p9\*1.001,p5  
a11=a8+a9+a10  
a2 butterbp a1,k1,40  
a3 butterbp a2,k5,k2\*.8  
a4 balance a3,a1  
a12 butterbp a11,k4,40  
a13 butterbp a12,k2,k5\*.8  
a14 balance a13,a11  
outs a4,a14  
endin

instr 2  
idb1=ampdb(p9)  
idb2=ampdb(p11)  
irvgain1=p12  
irvgain2=p13  
k1 oscil idb1,1/p3,p8  
k2 oscil idb2,1/p3,p10

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k3 linen 3,.9,p3,.3
k4 randi k3,10
k5 randi k3,15
k6 linen p20,p14,p3,p16
k7 linen p21,p15,p3,p17
k8 oscil k6,p18,1
k9 oscil k7,p19,1
a1 oscil k1,p4+k4+k8,p5
a2 oscil k2,p6+k5+k9,p7
outs a1,a2
garvbsig1 = garvbsig1+a1*irvgain1
garvbsig2 = garvbsig2+a2*irvgain2
endin
instr 3
ifunc=p4
imeth=p5
iamp= ampdb(p6)
iseed= p7
ilforate=p8
ita=23
itb=24
itc=25
itd=26

if (imeth==1) kgoto randoma
if (imeth==2) kgoto randomb
if (imeth==3) kgoto randomc
if (imeth==4) kgoto randomd

randoma:      kindex  randh  int(10), ilforate, iseed
              kpitch  table  abs(kindex), ita
kgoto next

randomb:      kindex  randh  int(18), ilforate, iseed
              kpitch  table  abs(kindex), itb
kgoto next

randomc:      kindex  randh  int(9), ilforate, iseed
              kpitch  table  abs(kindex), itc
kgoto next

randomd:      kindex  randh  int(6), ilforate, iseed
              kpitch  table  abs(kindex), itd
kgoto next

next:        if p6<50 kgoto ra

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        if p6>49 kgoto rb

ra: k1 linen iamp,.25*p3,p3,.2*p3
    k2 linen iamp,.2*p3,p3,.25*p3
    k5 line 1500,p3,50
    k6 line 1000,p3,50
    a1 oscil k1,kpitch,ifunc
    a2 oscil k2,kpitch*1.002,ifunc
    a5 butterbp a1,k5,30
    a6 butterbp a2,k6,25
    a7 balance a5,a1
    a8 balance a6,a2
    outs a7,a8
garvbsig3=garvbsig3+(a1+a2)*4

rb: k3 linen iamp,.25*p3,p3,.2*p3
    k4 linen iamp,.2*p3,p3,.25*p3
    k7 line 1500,p3,50
    k8 line 1500,p3,50
    a3 oscil k3,kpitch,ifunc
    a4 oscil k4,kpitch*.998,ifunc
    a9 butterbp a3,k7,25
    a10 butterbp a4,k8,25
    a11 balance a9,a3
    a12 balance a10,a4
    outs a11,a12
garvbsig4=garvbsig4+(a3+a4)*2
endin
instr 96
irvtime=p4
a1 reverb2 garvbsig3,irvtime,.9
k1 line 50,p3,2500
a13 butterbr a1,k1,10
a14 balance a13,a1
outs a14,(a14)*0
garvbsig3=0
endin
instr 97
irvtime=p4
a1 reverb2 garvbsig4,irvtime,.1
k1 line 2500,p3,100
a13 butterbr a1,k1,50
a14 balance a13,a1
outs (a14)*0,a14
garvbsig4=0
endin

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instr 98
irvtime=p4
a1 reverb2 garvbsig1,irvtime,.5
outs a1,(a1)*0
garvbsig1=0
endin
instr 99
irvtime=p4
a1 reverb2 garvbsig2,irvtime,.25
outs (a1)*0,a1
garvbsig2=0
endin
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