


```
**kern
*Itromp
*clefG2
*k[]
*M4/4
=29
2r
8r
{8d
8g
8b
=30
28dd
28b
28dd
28b
28dd
28b
28dd
8b
8dd
8gg
8dd
8b
8g
=31
8cc
[4.a
8a]}
{8d
8f#
8a
=32
4cc
8a
8f#
8d
4dd
8dd
=33
8ff#}~
8r
4r
2r;
=
*_
```

We can collapse the arpeggiated chords using the **context** command:

```
context -b = -o = copland
```

Identify the chords is facilitated by using the pitch-class (**pc) representation described in Chapter 34.

```
context -b = -o = copland | pc -a | rid -d
```

The corresponding output is:

```
!!!COM: Copland, A.
!!!OTL: El Salon Mexico
**pc
*Itromp
*clefG2
*k[]
*M4/4
r r 2 7 B
2 B 2 B 2 B 2 B 2 7 2 B 7
0 9 9 2 6 9
0 9 6 2 2 2
6 r r r
*_
```

In order to identify these as G major and D dominant chords it would be convenient to reduce the sets to (2,7,B) and (0,2,6,9) respectively. For this task, we can use a The following awk script eliminates repeated tokens within a record: (huniq: We might call this script **huniq** since it acts like a horizontal version of the **uniq** command:

```
awk '{
  # A script to eliminate repeated tokens within a record.
  if ($0 ~ /^[!*\]/) {print $0; next}
  else
    { array[$1] = line = $1
      for (i=2; i<=NF; i++)
        {
          if (array[$i] == "") {array[$i]=$i; line = line
            " " $i}
        }
      print line
      for (i in array) delete array[i]
    }
}' $1
```

Example 35.1 J.S. Bach, "Gigue" from *Suite No. 3* for solo 'cello (excerpt).



**kern
*M3/8
=88
(16F#
16c)
(16E
16c)
(16D
16c)
=89
(16B
16D)
(16A
16D)
(16B
16D)
=90
(16c
16D)
(16B
16D)
(16A
16D)
=91
(16B
16D)

