Subject: Re: Help with Histogram...
Posted by peter.albert@gmx.de on Wed, 28 Sep 2005 08:47:46 GMT
View Forum Message <> Reply to Message

Me again :-)

here is a solution for n_profiles at once, which at the end just needs
one loop over all profile levels, which is probably acceptible ...

```
; Let's try 10 profiles:
  n = 10

; Arbitrary clouds
  base = (findgen(8) * 1000.) ## (intarr(n) + 1)
  top = base + 300.

; Let's make one different from the others:
  base[5, *] = base[5, *] * .5
  top[5, *] = top[5, *] * .5

; This is the same as above
  profile = intarr(n, 60)
  height_level = [0., exp((findgen(60)-30) / 15.)] * 1300.
  x = indgen(61)
  base_idx = ceil(interpol(x, height_level, base))
  top_idx = floor(interpol(x, height_level, top))

; Now, this is the loop over the profile levels:
; For each level we check for all profiles at once
; whether level "i" is within the borders as given
; by base_idx and top_idx:

  for i = 0, 59 do $
      profile[*, i] = $
      total($
        base_idx le i and top_idx ge i $
        , 2) $
      gt 0
```

I gave it a quick check and the result looked right to me, but feel
free to tell me if it does not what you expect.

Best regards,

    Peter