Re: Beginners thread

Source: http://newsgroups.derkeiler.com/Archive/Comp/comp.compression/2010-02/msg00065.html

- From: Ernst < Ernst Berg@xxxxxxxxxxxxxxxxxxxxxxx
- Date: Mon, 22 Feb 2010 00:32:24 –0800 (PST)

On Feb 18, 1:38 am, James Dow Allen <jdallen2...@xxxxxxxxxx wrote:

It's quiet in this newsgroup, so I'll jump into this thread!

On Jan 31, 9:35 am, Ernst < Ernst B... @xxxxxxxxxxxxxx wrote:

I have this data stream from an experimental system. Run Length Encoding comes to mind from what I read Would this be a wise choice for this kind of bit stream?

This "does" look like an interesting problem! Yes, there are long runs of zeros, but when ones "do" occur, they occur in (shortish) runs themselves. One approach might be to alternate two different run—length codes, one for 0's, 1 for 1's. The first step might be to accurately model the data.

This kind of data (lots of zeros but the ones that "do" exist are clumped) is fairly common, and there are probably lots of simple schemes that would work well enough (e.g. arithmetic coding conditioned on the K most recent bits), but if there is an elegant "standard" approach to compressing such data, I either never came across it or forgot it.

(* By the way, making "K" large in the arithmetic coding just mentioned would lead to asymptotically "perfect" coding. *However*, much practical compression involves thousands of bits in a given class, not millions, so for many purposes such "over-trained" models are "not" the answer.)

On Jan 28, 5:36 pm, Ernst < Ernst_B ... @xxxxxxxxxxxxxxx wrote:

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Camilla Rothe

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