

Issue #686: Computed field integration doesn't handle inconsistent xi Description

Where adjacent elements have opposing xi directions, integrated values from the last element are assumed to be carried forward to xi=(0,0,0).

This gives the following 1-D integration of xi:

```
0-----xi->---1 1---<-xi-----0
0          1 2          1
```

What we want is:

```
0          1 1          2
```

This can be achieved by noting the true xi location for the initial values, i.e. xi=1 for the second element in the above example, and ensuring the integration increases down xi.

Question:

Is there any reason why this new behaviour cannot be on at all times?

Status: pending, Assigned_to:

Issuedata

Classification: Feature , Project: cmgui , Importance: Medium

Progress

Deadline: 2008/07/08 11:32:18.019 GMT+12 , Percent done: 0

Contact

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Transcript

#1 Comment 2008-05-09 11:59 (rchristie)

Changed: categories: "()" -> "[]"

Changed: OS: "Linux" -> "[]"

Changed: version: "Development" -> "[]"

Changed: title: "" -> "Computed field integration doesn't handle inconsistent xi"

Changed: description: "" -> "Where adjacent elements have opposing xi directions, integrated values from the last element are assumed to be carried forward to xi=(0,0,0).

This gives the following 1-D integration of xi:

```
0-----xi->---1 1---
```

#2 Comment 2008-05-09 17:22 (blackett)

Comment

It was a really long time ago, I can't remember if there was a reason I thought I couldn't handle inconsistent xi, but I did go to a lot of effort to change meshes to have consistent xi so I must have thought it was important at the time.□