AxisVM Report Generation Example

Inter-CAD Kft.

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Contents

1 Model Information

N Node	280
N Line	682
N Surface	404
N Member	6
N Domain	4

1.1 Domains

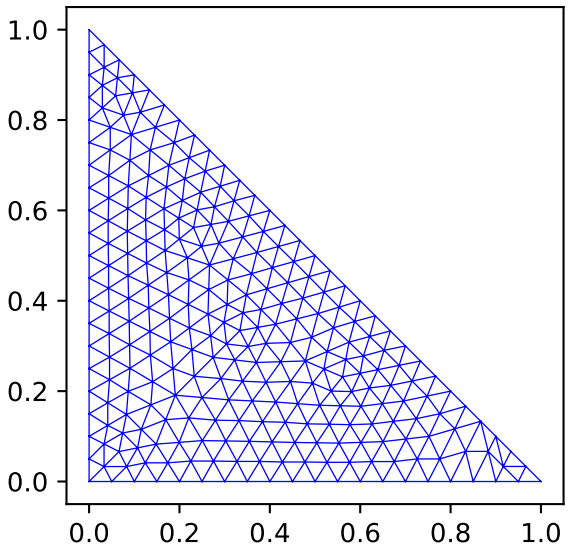

Figure 1: Domain 1

2 Results

2.1 ULS

2.1.1 Degree of freedom solution of a domain for a single load case.

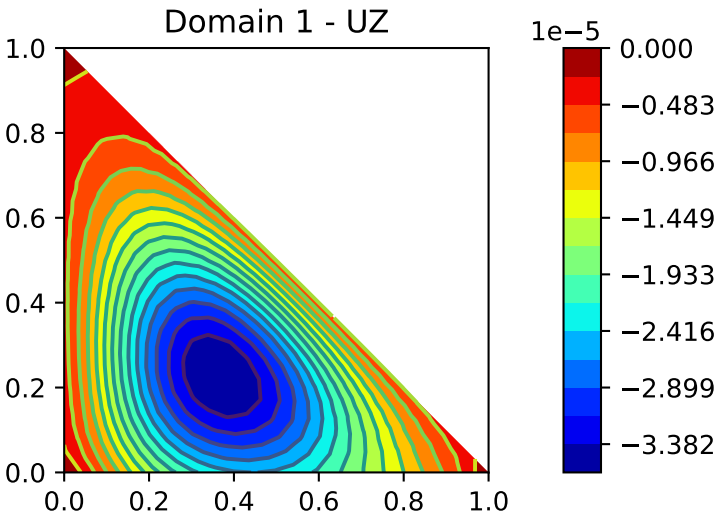

Figure 2: Degree of Freedom Solution for Domain 1

2.1.2 Von-Mises stress distribution of a domain for a single load case.

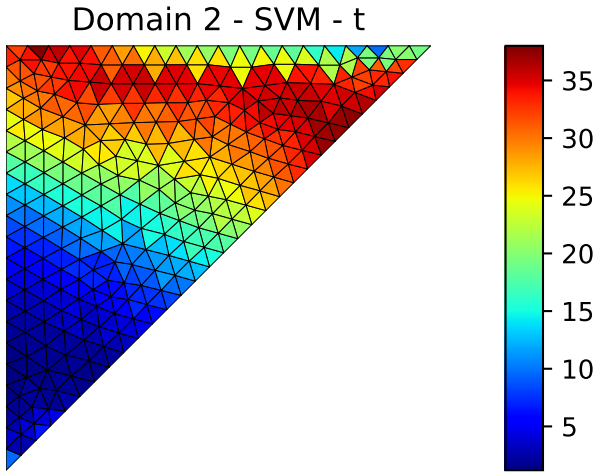

Figure 3: Von Mises Stresses for Domain 1

3 XLAM

3.1 Stresses

Stresses of a domain for a single load case

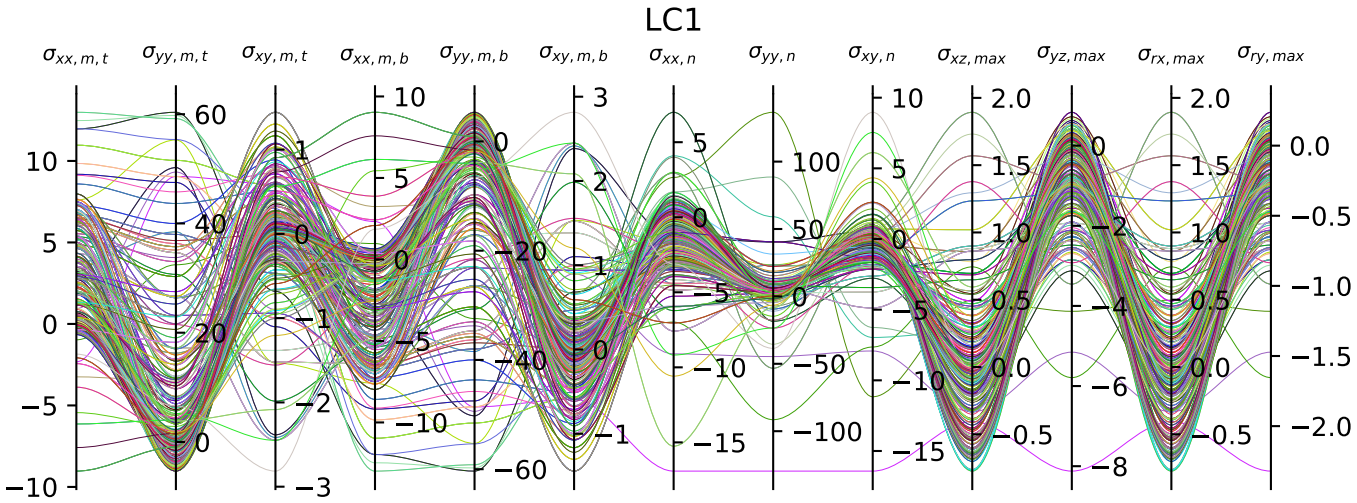

Figure 4: Parallel coordinates plot about the stresses of all the points of a domain.

3.2 Critical combinations

Critical combinations for a single node of a domain Ciritcal combination for Node 161 of Surface 347 of Domain 4
$1.5 \cdot \text{LC1} + 1.05 \cdot \text{LC3} + 1.05 \cdot \text{LC4}$
Critical combinations for a domain Ciritcal combination for Domain 4
$1.05 \cdot \text{LC1} + 1.05 \cdot \text{LC2} + 1.5 \cdot \text{LC3} + 1.05 \cdot \text{LC4}$
Critical combinations for all domains
The combination resulting the highest maximum efficiency is

$$1.05 \cdot \text{LC1} \ + \ 1.05 \cdot \text{LC2} \ + \ 1.5 \cdot \text{LC3} \ + \ 1.05 \cdot \text{LC4} \tag{1}$$

Surface stresses:

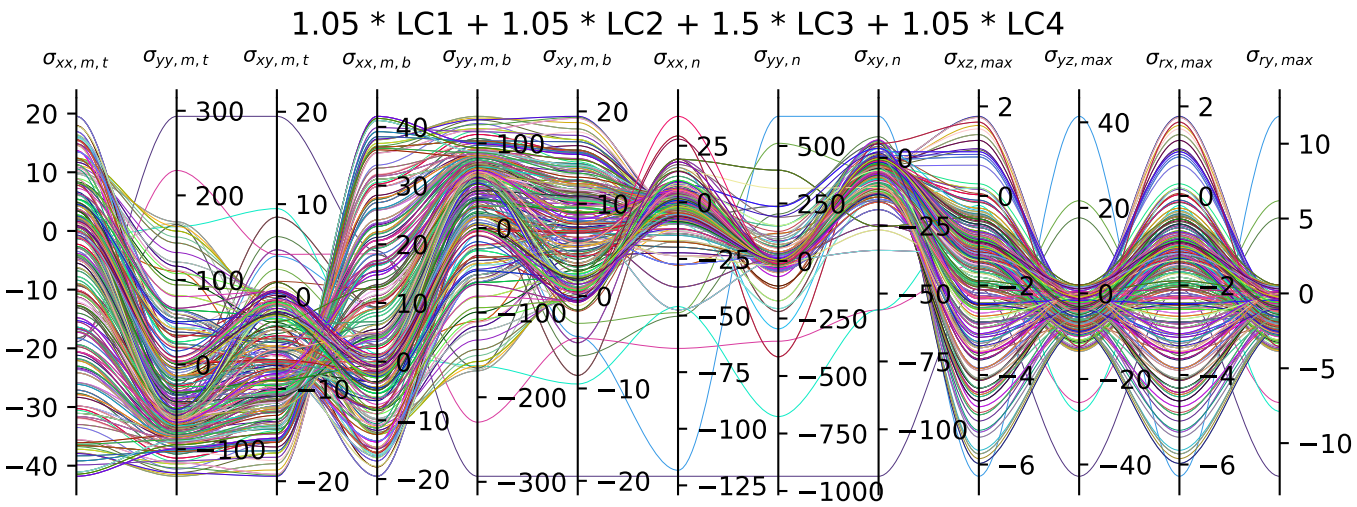

Figure 5: Stresses of a domain.

Efficiancies: