

## Stitching score calculating times

$N_{full}$

$$\text{Eq : } N_{full} = \sum_l N_l = \sum_i n_{l_i} \times n_{l_{i+1}}$$

$N_{opt}$

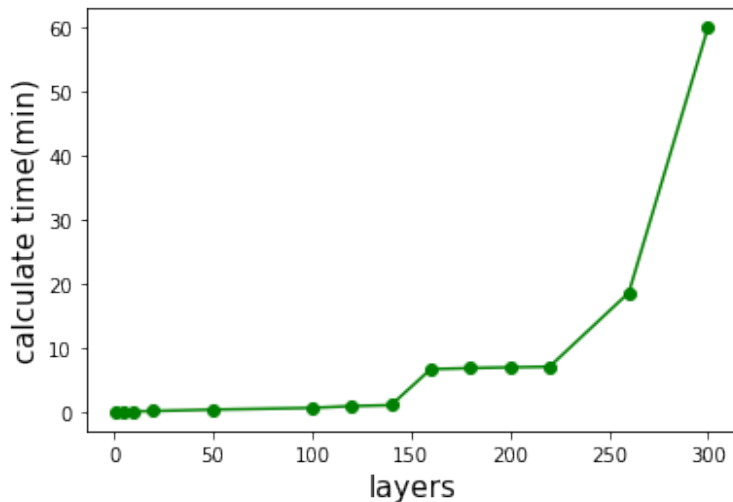
$$\text{Eq : } N_{opt} = \sum_i \sum_{(s_i, s_{i+1} \notin S)} 1$$

candidate set : 300 points (300 layers)

$$N_{full} = 638,454,530$$

$$N_{opt} = 2,318,236$$

$$\frac{N_{opt}}{N_{full}} = 0.0036...$$



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# stitching score 저장 되어있는지 검사
if keys_exists(match.stitching_map, str(seg1), str(seg2)): # seg1:seg2 있으면 stitch 계산 x
    pass
elif keys_exists(match.stitching_map, str(seg2), str(seg1)): # seg2:seg1 있으면 stitch 계산 x
    pass
else:
    if keys_exists(match.stitching_map, str(seg1)): # 계산 안되었고, 이미 seg1 key 있으면 새로 만들
        match.stitching_map[str(seg1)][str(seg2)] = td.Segment.stitch_score(seg1, seg2)
    else: # 계산 안되었고, seg1 key 없으면 새로 만들기
        match.stitching_map[str(seg1)] = {}
        match.stitching_map[str(seg1)][str(seg2)] = td.Segment.stitch_score(seg1, seg2)
```

**Stitch score가 이미 계산되어있는지 검사 과정에서 시간 소요될듯**