$$\mathbb{E} \left[ \text{ Total local max} \right] = \mathbb{E} \left[ \frac{1}{1-1} \mathbb{X}_i \right]$$

for 
$$i=1$$
 or  $i=n$  If  $[X_i] = \frac{1}{2}$ 

So. 
$$\mathbb{E}\left[\text{Total load max}\right] = \frac{1}{3}x_1 + \frac{n-1}{3} = \frac{n+1}{3}$$