

5. CONCLUSION

Analysis of the effect of stiffener to crack tip can be done using simulation of finite element. From the result from three models of crack length, we can see that stiffeners installation to the plate, can reduce stress intensity factor and stress concentration on the crack tip. With the variation of stiffeners distance to the crack tip, we can conclude that closer distance of stiffeners to the crack tip, the more effect of stiffeners on reducing stress intensity factor and stress concentration on the crack tip. In the end, by the variety of types of contact, we can conclude that the larger the amount of contact of stiffeners to the plate, the more effect of stiffeners installation on reducing stress intensity factor and stress concentration at the crack tip.

