
ENTERING
Rising Feedrate Section
TANGENTIAL ACCELERATION CALCULATIONS
Calculate min_tang_accn(u)
Calculate min_tang_accn(u)
FEEDRATE LIMIT CALCULATIONS
Calculate curr_frate_limit(u) based on
the 4 limit constraints.
CURRENT FEEDRATE CALCULATIONS
Transform parameter (u) to (rsu)
Calculate curr_frate(u) using rising S-Curve(rsu)
Calculate next_tang_accn(u)
UPDATE VARIABLES
Set curr_frate(u) = next_frate(u);
Set curr_tang_accn(u) = next_tang_accn(u)
COMPARE ACCN FOR MAXIMUM
next_tang_accn(u) > max_tang_accn(u)?
Yes
No
next_tang_accn(u) = max_tang_accn(u)
COMPARE ACCN FOR MINIMUM
next_tang_accn(u) < min_tang_accn(u)?
Yes
No
next_tang_accn(u) = min_tang_accn(u)
UPDATE VALUES FOR NEXT CYCLE
curr_frate(u) = next_frate(u)
curr_tang_accn(u) = next_tang_accn(u)
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