MPMC mean Microprocessor and Micro-controllers

1 MPMC Module 1 - All you need Guide !!

00:00:02 so hello everyone in this video we will see how we can go the mpmc and this is the part model one of this mpmc guidance Series so uh for the newcomers just let me brief this series that we will be covering the guidance needed for mpmc uh how I came back from this situation of getting a back to getting a b-grade that is a huge jump of this thing which I again from this period of time to this period of time so yeah so let's uh start the module one okay so uh for the newcomers I won't be exactly teaching it

00:00:42 but I will be guiding how to cover this as a brother or who will be guiding you who have already experienced this difficulties in things okay so in model one thing is that uh it is just the introduction introduction of what the microprocessor and as discussed we need to three we need to study three microprocessors which is 8086 8051 actually it's a microcontroller but you can say a processor okay so so three processor so6 80 51 and then AR okay so here we will see the introduction of the whole processor

00:01:27 thing what is a processor okay so uh here uh module one is just waited 10 months in fact like maximum 10 marks it's usually between 10 to five marks okay uh so as you can see five marks okay five to 10 marks and what is important here is that you get to understand why you are Shing micro okay why are you even looking at this subject okay so the very basic need which made me comfortable with this subject is that is just the very beginning of your understanding of this processor of like Intel Core

00:02:20 i5 I6 uh I9 and all those thing okay so these are the very basic versions like 8 Bits six bits of micro processor the letter g into something better better better and finally we have I9 and all those stuffs which are being used in 2024 okay that is your latest okay so the thing is that you need to focus here why we are studying the subject and what are the basic just terminologies used here like bits and all those stuff which I will be guiding you and uh in the for the exam point of view you can expect for cat you will be

00:03:00 getting 10 mark question out of this three questions only uh 95% time only three these three questions will be asked this is my experience by solving multiple p and not of only cat c one but fat and all the okay like for this model is coming on cat right so that is why okay so prepare this questions for exam point of view and for understanding point of view as I said mbmc needs very B core understanding in theory and coding and everything so yeah your aim will be understand why you are studying

00:03:42 processor and how it is linking back to DHD like DD we studied Gates which resulted into other like other things like FP flop and all those stuff then we also shed transistors and these processors these processors are made of transistors so we are you can say studying in depth the processor which have made of of lot of transistors and latest processors are getting

Less in size and More in number of trans and getting more efficient okay so I you the exam point of view these are the 10 Mark questions and then and here I said what

00:04:21 you need to focus on and let's see how you can get start with this moduel and achieve your goal goals what I what I said and here as I have already said about the strategy you have to refer multiple resources none of the one playlist could solve your problem okay this is the key so I will be guiding go how you will doing so since this is the introduction of microprocessor so let's go and search microprocessor and here I filed all the list because I don't want single random video I want a set of videos like a

00:05:04 person who is dedicated to let me know his whole mindset about that processor and whole understanding rather than single isolated video okay so yeah what I recommend is yeah great smash sir is very very very great teacher but thing is that in his playlist it is not complete so it won't be giving a continuation of his knowledge in lot of the mpmc like is and all those stuff but yeah I do recommend if you're studying in major Hindi lect so you better start with this uh do continuation till some of the video

00:05:51 okay so yeah uh don't go with uh the resources I have attached here only because there are a lot of resources I I followed to get this 150 hour mark which I said which I sted okay so yeah you have toer multiple resources and not only this uh this but yeah for Hindi you can say this is the best thing and for rest of the thing I recommend this playlist and this P yeah just wrap around your mind or among various playlist and get the understanding okay and wait wait wait U this is little bit of part of moving

00:06:38 from module one that is Introduction uh introduction to here let me first cover the module one first so yeah for module one you can um go to your send your whole play uh resource thing and uh resourcing which I will inform you once again like you can get all the BPS of all the subject of all thees which is and so yeah in that from in model one I open this PP and yeah basically you need to cover this PP only and then you need to answer these questions for your fat exam sorry like question for provid question which will

00:07:31 be asked for exam point of view and for understanding point of view you have to goer multiple resources as I said and get the understanding okay so for for the basic understanding which help me why we learning micro process I told you that this is a continuation like we are uh studying a lot combination of transistors which is which is in total doing a processing thing which is taking U input and giving out okay this is the basic okay and uh and more feeling you can get is that this is a basic version of your

00:08:06 whatever processor you are using in a laptop like I I5 I9 and all those S i7 okay so yeah microor definition and yeah uh this microprocessor is programmable clog driven all those properties just get around those terminologies chat GP and all the stuff and get to understand the basic idea of processor okay uh then important features get around those features know know about those features from various video but don't just stuck around this because you will be getting to know better this features

00:08:42 when you will actually use it and this page this temperature monitoring system better this is out of syllabus as of now so don't study that then Evolution yeah as I said Evolution this is first created as 4 bit then 8 bit then 16 32 64 then the latest are your uh i7 I9 all those process basically you need to cover this PPT for your module that's it okay and uh see the syllabus now let's see the questions so this question uh is is from module one plus module 3 which says the difference between two type of processor that is

00:09:29 micro processor and microcontroller okay and there is difference between 8 Bit And 16bit processor which is actually 8085 and 8086 this is just the difference and you don't have to study in detail about this 8085 okay and there is the difference between risk and cisk as well like few of the classes have covered that in that the pp is not in the this PPD so yeah by this you get covered and prepared for your exam and see the syllabus once again so one question from here discussed and this difference and this

00:10:08 second question and evolution all these are just to understand and get the feel and not for examination purpose so this in this way model one is done okay so in next part of the video we will discuss how you can cover model two by the way we have got an idea like which playlist refer for model as well yeah we'll cover in detail what you need to do exactly okay so this is done as of now we'll cover this guidance for this part in next one till then see you have a get so I thought I need to tell you

00:10:47 something more okay like how detail you need to study this one and this one so 16 bit microc is 8086 and 8bit is 8085 okay so so yeah so get Thea I will recommend you to watch this video uh yeah this video this video although this won't come in exam but it will help you to understand few things and then type of register like I just like the way g n explains and makes it very obvious and relatable so for the Hindi viewers yeah you just watch till here although 8085 question won't be asking in exam as I've already discussed

00:11:38 only the difference of 8 85 and 886 is important and the difference is important because there are there were some limitation in 8085 due to which we came to newer version 886 and about which the whole next module is right so basically you need to prepare those three question only but yeah will recommend if you're Hindi viewer you just watch this video so you will get a understanding and like feel what is micro from m m and for other like English FS um they can they can use this playlist or this playlist to get the feed okay

00:12:21 and here as I said five you don't have to study though in detail okay sorry is6 86 yeah so um to get idea like to to know the difference to write the difference and this thing like difference between this you can watch both video6 and then get the difference or you can just watch the uh you know directly directly start the 806 get the fields so that will be helping you out to understand 8085 and the limitation so either way you have to you know go back and forth and get the thing like get the understanding so that you can write in

00:13:23 your exam and get the basic understanding of process and all stuff also so so the difference look looks like this like microor micro controller uh okay now this difference I'm talking about I'm talking about how much to study about Ed of web is you have to study this much only like like size it was 8 bit it was 16 bit and all all those things only this difference points Okay Okay I uh as I said I am for multip resour so this screenshots are from another video which I don't recommend you to watch

00:14:01 because what I put understand is that the the teacher which is teaching this is just repeating the steps which she is writing so you can juster this notes of mine okay so in in a concise manner I got this thing from another video so these are the 64 yeah 14 differences you can you can write in your exam so this is more concise one and yeah so we just need to understand that thing so I can show you my notes though how much depth you need to know5 so just the features of 8085 and it's limitation so basic

00:14:49 limitation was it could do multiplication division and all the Stu that is why and and this another thing which you will get to know when you wereing and it was slow slow so we we a better one6 and which will okay there's as I said those question only will come so basically this is you can say cat one or model one question okay advantage of 06 basically that is the limitation of 85 which you can also write in difference and all those questions are intered okay so yeah I get to so when I studed I

00:15:28 studed 85 and a little bit and then I get to know the differences and why I why it is very logical to study very little 85 because they won't ask in exam they just want you to study 05 just to know the limitation of 0 85 which will lead you to study 886 you can understand it they just want you to study 805 8085 to know its limitations of this processor and why we move move to 6 okay so for mod one that's so see you in next

Satya's notes is best notes to study from with all video recommended links according to subtopic wise along with pyq solution and solved practice question= https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbVBFU0lLazRFSVZyZ21oaktkVXFoRVY5V1lSZ3xBQ3Jtc0ttLXF3OEdwWUxtZ3BiQV83LUhMQ3B4d3N4dWlTMm90c01KcXNveHNjYXBsV0RqZFRIdi02VW9yQmlUUmFzNl80MG00dGM2M2JUY3E3b3VwS1dIMzg5YklYTFdBeE9kTlpDN2hsMXM1cDlSSmFUVTBLcw&q=https%3A%2F%2Fdrive.google.com%2Fdrive%2Ffolders%2F1tAJ4REVk-i7QcAXa8vjOQj5n62j0AyB5%3Fusp%3Dsharing&v=pExYIqclBj8

2. MPMC Module 2 - All you need Guide !!

00:00:03 so hello everyone this is the part two basically covering the module two of mpmc in this guidance Series so as this is over viiew of what I learned from mpmc like how I got from this situation to this situation uh by studying this much hour and whatever guidance I will give you that will help you out in overall understanding and mastering this subject for overall you know better marks and if you even want to understand the subject and if you are very much dling in the okay so let's get started in the video so

00:00:44 let's come into syllabus so what we need to study this is from this model let me tell you uh there are two type of questions that is theory and numerical so numerical comes like this this numerical part and all this are Theory portion okay so you need to prepare Theory and numerical both thing and let me just show you uh this is the second processor actually the first processor but um Advanced version of 8085 right this is the first processor we are studying as I said 8086 which is Advanced version of

00:01:25 8085 and we need to study a three processor that is 8086 uh 51 and okay so basically the first processor which is the Advan r on okay as we seen in module one and if you are newcomer you hav watch the previous video just go into the playlist and watch the previous video as well because this mpmc subject help us a lot of understanding and okay so let's go one by one 16bit processor is 8086 we we have to study the architecture addressing mode memory segmentation instructions sets and LP okay and there are various

00:02:13 modes as well pin diagram and all the stuff and this is about the micr processor itself 086 and this is about the devices attachable to the microprocessor okay so let's see my note and get around the whole thing so this PDF which I will share is will be of model one model two because model one is just the basic thing it's introduction so uh I have shown you till here okay so in module two you will get to understand 86 is signal diagram and basically then pin diagram like pin diagram looks something like

00:02:56 this oh yeah give me some time it has 46 pins if I'm not wrong so this is a diagram this are used for various purposes uh don't worry you don't have to remember all of this but uh and not this diagram exactly as well this like this portion which pin which pin yeah you do need to remember the like the full form okay like full form of in and function and all the St as I have uh um I written these are the possible questions like this discover everything like 100% of question will come from this topics only because I covered all

00:03:40 the topic and this is just a big description that this is a numerical portion the theory portion and if they want to put some Theory vertion they will definitely put

architecture or different thing like pin diagram addressing mode or instruction and function of pin as I said different modes and there were there are other possible questions as well like um can write here memory segmentation and all stuff which is very well categorized in my notes like not very much well like Cal notes but yeah it is there according to heading okay so

00:04:18 let's navigate so these are the pins which you need to know and these are the basic teres which you studied in module one like clock signal like our computer has a clock that is how a processor has inbuilt clock as well okay so yeah so these are the like full forms as I said like in cat one it was asked what is the full form of BH and function so you have to write the full form and its function so this is how this question will be of yours will be done so yeah don't watch this video of EA because it's not good but yeah uh

00:04:54 I will share you this thing and they will explain you and only this portion is needed for like only this time stamp of YouTube videos needed to understand this so yeah don't watch their video because they are not very much explaining different thing than they are writing so you can just refer my notes or you can if you want you can go through it but I have different recommendation for model to uh as I've already discussed a bit for for 06 you refer this playlist for if you're uh if you want to study in English and this list also if

00:05:28 you want to study in English just come comp which playlist shows better and this playlist if you're a Hindi person like I have seen this thing uh at the like just before F because initially I was stumbled into this video which made me a lost like lot of time this okay okay so Hindi persons video playlist recommendation from to done for English was also done and just you know jump between and clip back go back and forth between this playlist just switch between this playlist if you're not getting the topics and go

00:06:07 don't go into searching and putting something like 8086 this and this uh for 086 engine for 85 like 85 85 sorry 85 051 the model 3 B but don't refer them for6 so even if you go for searching and or finding a new like what is the best possible thing for doing for6 that is what you will end up after watching a lot of videos Okay so this video I don't recommend I have already watched it and why is not showing yeah it is not recommended to watch this this this or this video um so the SEO whatever giving

00:06:50 you doesn't give you the best possible video so whatever I recommend you just go through it so yeah uh let's move to next topics so you get to know you have to know the full form and the functions you won't be you won't be asked to apply that as

of now but yeah get to understand the basic knowledge you need to do this connection in lab but yeah I will come to that as okay so nmi C question basic fun so all those pins you have to understand and this table you don't have to remember much so don't

00:07:28 Focus much on that but yeah let focus on the topic like uh they provide the status okay in this way pagram of your will be done then architecture architecture yeah architecture this is the understanding of architecture like this is from PP and I referred a lot of resources and combined them here and I actually made another concise thing for architecture as well I will show you that and in sometime okay uh yeah this is the register organization the memory segmentation and register organization as a theory 10 mark

00:08:13 question as well there a possible question okay so whole organization where is so if whole organization come you have to write the whole thing this all thing you have to write and yeah you don't have to apply much so yeah this flags are very much important uh I'm stressing that because it will very helpful in Practical implementation labs and all those St okay uh so um just use those playlists and uh get to a theory get to understand the theory of of P or from my notes here so you just have to dip into multiple resources

00:08:53 as I'm saying okay so addressing all of that I uh you can see like this okay uh and I made it f to remember them just look into that you will get to know this is the screenshot from enging Fonda but this is the only screenshot which is helpful and not the B okay so inters I I have written skip here but uh yeah inters I have covered in lab portion I will move into that and this Max minimum note this is the theory and okay so there comes the instruction sets so this is screenshot from PP I will say you the which will be the best

00:09:36 PP uh and yeah you need to understand the theory from by by switching uh again between uh between this ucation for you and this two play play so basically we have to switch between those three play and get to understand okay and not search uh individual topics because they won't be getting connected and find a playlist and the best playlist I told you is that okay let me close so get to understand the theory of this this thing H this instruction sets this is the another major part as I have said instruction so they ask you uh

00:10:18 about this full form as well full form and its function like they will give you to code this and I will come to the coding part later but yeah you need to understand this thing how the rotate thing is working and shifting thing is working difference between rotate and shift instruction and he will be getting confused so I have summarized as well

because I also got confused at the end when I studied three processor and is coding for that okay so yeah you can refer my notes definitely we getting more clarity

00:10:50 between the differences and how to remember them okay so remember portion I also saying like uh I have made how I remember this thing okay so F flagman version just get to know the theory all this thing will be useful this instruction all these things will be useful in coding part where we doing multiple things like uh let me give you an example let's go back to this syllabus and okay those things will be repeated H 51 as well and you will be connecting LCD LED you will be turning on off LED in various patterns and all the stuff so

00:11:30 that will be useful when it will be getting so getting there so get those instruction in your hand like these are just the keywords and we'll be uh basically doing the assembly coding using this instruction and add formats not adding for but Bally instruction okay okay so you will be also needing this conversions like decimal to this this and stuff you can just refer my notes these are the best possible notes I made after studying this the same topic in three sents okay like I also made a way to remember

00:12:05 like I classif this into three types and you can just go through notes it will be very useful I made those thing like decimal two and this as type one binary this are type two and between between octel and XML type this so yeah just get over this not it will be useful and separately binary to X so there are four type of conversion you can say you can okay and I guess I have the video link as well which from which I got to learn this types U otherwise it is very much self assment in my notes get over so

00:12:48 get uh then yeah uh let's come to the this this numerical part so I have covered this this Theory portion Theory portion Theory portion Theory portion I will come to this in lat and now let's see physical ction which is a numerical portion and for this I do recommend a video other than those playlist I recommend yeah actually it's in Banu Pria only Hindi so she has given lot of example ample of amount of example so just practice that I have made notes from there only which is here okay and for uh

00:13:35 Theory and this is a form of that numerical and yeah for Theory this this is just the screenshot when iform in cat one and later on I get to know the best resource which is this okay just get through those video and you will get to understand the phys question and question around it okay now let's come to so all this is done done done only left thing is this not pin diagram basically this okay let me remove the cross this was for different purpose okay so there are two things two topics okay uh this or this so basically

00:14:21 these are not different thing 8 8254 is basically the advanced version of 8253 because 8253 has had some limitations okay and what is that actually as I said already this is the syllabus and and as I said this portion is basically the peripheral that is the extra devices which will be connecting to 8086 okay connection connection so this could be 8 8255 8255 or 825 4 or 8253 okay so as you have studied 8085 which led you to some limitation and led you to study 8086 this is just like this you studied this and few features will be

00:15:15 added and it will be 8 to5 okay so don't get confused like what is this and what is this these are the same thing but one is the advance ver of the other so yeah uh for this I recommend this playlist just click over this and you will get to the video I do recommend you to watch that and there are the notes from that video and there are the features and all those stuffs and yeah that is the thing and whatever they have teach taught here so that is enough and make sure you cover the all the topics of the pp from this playlist

00:15:53 which I recommend okay and not from any other place because this is the best possible thing which I got after Shing 150 hours of mpms okay so you won't be wasting your time in finding the right video okay so this is the timer counter part so yeah basically this thing this is the same thing as I said one is the advanc ver of the other so this can act as timer or counter so basic will let let me give you a f counter is just like there is a conveyor build and there are lot of uh items coming over there through

00:16:35 this thing so as one items passes by it will count one another it will count two another goes by it will count three so this is how counter works this the basic idea and for timer you just know the thing there will be time time isal zero time to T in which the processing will be completed and this will be used in various things like uh sharting the clock to do VAR things I will come to come over that and in few minutes so um the timer is used to for getting the interupt and all those things like there is a timer interupt

00:17:24 also okay uh let me just I remember what was the thing I will tell you in sometime okay yeah uh so in the guidance video uh this portion is over let's come back to or let's not come back let's come to 8255 okay programable interference for this I recommend this video yeah get to get over all these things features and all stuffs so as you can see this is the uh screenshot form that we video only and there are mod there are different modes upon which question comes so as I said if the question comes

00:18:06 from here so they will ask you either Theory or not numerical basically coding okay so coding looks like something something like this may come if I hav't cover here so you just cover that I think I have done so yeah this is a question basically

control word generation question so this is not exactly coding yeah there is coding part in PPD which I haven't covered in my time because it wasn't expected to come in fat so you just understand this thing like the generation of code word and later you

00:18:51 have to code that okay that will be covering in PP so you will get to know that and for that coding question you need to fight the video but code generation is cover so the best PP I will let me just show you so this is the page number 119 so you have to generate the code word after that you have to code it in Assembly Language so which looks like this these are the explanation of the Cod lines okay so yeah and this is the model 2 PP again you can find that in second whole secondary resour process made by

00:19:31 okay oh we have covered till this format which I showed you there and the diagrams also I showed you there the are the examples you need to practice yeah this is the another question you need to code this like this okay so that thing I haven't covered in my notes so you have to take that from here so this is the whole guide for 100 Pages PPD covering from YouTube videos and the exact videos which you need to see and exact playlist from which you have to flip and switch and go back and forth to cover all this

00:20:19 type of question for your cat one and F okay so Theory numerical and coding this three type comes here from model 2 and this is how we get to understand of whole module which was about Vol 8086 processor which was Advanced version of 8085 processor and by this we cover mod one module two and hence the big SE big section in the first processor and next processors are 0 51 andm processor and that's all uh to what all you need to cover the whole model 2 in the best possible man okay so stay tuned for the moduel two and moduel

00:21:13 3 and all those next guidance in the next parts of the whole series those who just don't know just check out the playlist for the all the parts and do let me know your thoughts in the comments and do subscribe if that was useful Okay so see you in next video till then have a good day

G00dGM2M2JUY3E3b3VwS1dIMzg5YklYTFdBeE9kTlpDN2hsMXM1cDlSSmFUVTBLcw&q=https%3A%2F%2Fdrive.google.com%2Fdrive%2Ffolders%2F1tAJ4REVk-i7QcAXa8vjOQj5n62j0AyB5%3Fusp%3Dsharing&v=pExYIqclBj8

3. MPMC Module 3 - All you need Guide !!

00:00:01 so in this video we will see how we can cover module 3 and module 4 for mpmc and those who are new here I can say about my guidance Series where I guide the Juniors uh from my experience from where I went from 30% marks in cat one to 70% marks in fat and this will help a lot of students who are struggling in mpfc so let's get into the video so in this video I will say you the video lists uh and the exact ppts and also my notes uh which can help you to uh get the idea from where to study and how can study so

00:00:42 let's start from my notes from model 3 so this is the index sueny and uh and as in previous video I have told you that you have to refer multiple playlist to in order to get idea in this whole subject so we will going through that so overall I will say uh this engine F will be your backbone and for additional like if you don't get that thing you can refer the playlist for Hindi I suggest education for you so you can get this playlist by searching or you can get the attach l in my notes okay so let's navigate to the

00:01:21 whole module and I will also say uh which questions will be coming in your cat one exam which was our cat 2 exam basically so yeah let's see so in module 3 uh let's see the syllabus first and in model 345 uh as I've told you we will be covering three processors so 345 is basically about 051 processor and first we will see uh all these topics right and you can just read through the topics and get the idea but from the exam point of view I can say there could be a theory question and there could be a

00:02:05 coding question and the theory question let me just show you what that could be so Theory question could be from these topics so basically there could be four type of theory questions like memory organization pin diagram plus PSW register and third question could be from architecture 551 and fourth question could be from reg organization in srf okay so this could be Theory question and in coding part uh there could be problems like this uh so there could be basically questions like implement the expression isal mc^2 or

00:02:42 there could be a question which be based on timer and counters and that will be a scenario life question that you can exactly see from previous question and I will navigate through to that as well so let's go uh to my notes and see each top Topic in detail so as I navigate through you not so you can see these are the final answers I have prepared for all those things like I have told you like in theory uh there could be architecture question so after learning everything before fat exam I prepared answer for

00:03:19 myself which I wrote learn and so it is architecture for ramr organization which is uh register organization you can get the answer here from this this by toggling

this you can see it is a four page of answer or something and about PSW register uh Theory you can see this one you have to remember all these bits and stuff and for other other the thing srf uh sfr srf or sfr I don't remember exactly but sfr probably so for that question you can get the answer here so this four will be the you know summarized thing of what you should

00:03:59 write in answer and so after this you can see the resource section and then you can see where the actual module starts from the introduction of my controll to everything else so here uh one question to come in uh uh is that microcontroller versus microprocessor so as I've told you in module one as well on then okay so that question could also be included in theory question here and now we see uh okay I I made this notes from EA but if you U refer that video because if they are not good enough so I haven't

00:04:40 included in resource section but if you want the notes it is all everything here so you can just read through it no none of the extra theory is covered in the video which I haven't written here so you can just go through it and uh yeah just introduction of mic controller like basically what is mic controller and how it is different from m processor and basically microprocessor have different parts attached to it to make it like uh you know make it working and Micro Control basically have it everything in

00:05:12 one place you can understand in a basic manner presently and okay so types of micr controller and bits memory and all those things okay this is a theory portion and this is that question micro ver mic controller I written everything else here and I have also WR like how to remember it easily like you could categorize it like this and then remember it so it will be helpful like it kind of n can say okay so then features and stuff you can just read through any PP or here for my notes pin diagram basically pin diagram says

00:05:54 which like in a 40 42 pin I see or something how what pin does what what work and yeah for for every P there is a description you can go through it then architecture and stuff as I said you have to understand you can go to it and here these are some c one questions so I will be uploading my P soon and before that you can see here as well like you should be prepared for this set so I as I have seen the expression type of coding question is coming here here is Theory question and here's another coding question

00:06:30 and yeah uh this is a theory lotion okay so you can go through it and here are various addressing modes uh I won't I won't be teaching you that so I won't be going in details so yeah just refer the video and here so you have to understand all these

addressing modes to actually go get into the coding portion and here in Ram or another theory version you can just go through it uh and this is the best understand from this video so I have emphasized this link here and for ramam or Rome organization this is this video

00:07:15 is emphasized here again and then you can just go through all the topics again it is screenshot from PPD like it it is in a summarize man and there is various instructions as well logical bu all those stuffs like you have different types like in and stuff and Python and all those languages yeah so there uh as as we have written written keyword here we write r or reti so you can go through the difference and all the stuff and you much must watch this video to get the understanding and yeah so yeah different type of

00:07:56 instructions Branch instruction comes here and here is is the coding questions which I was saying the expression thing so I have solved it here like the my code and this is question one Cod question two like it is from like type to question circuit to code there will be a given a circuit and you have to code it uh in Ed okay so uh I have referred other videos so I have emphasized the link here which is not in those playlist which I have attached in resource section okay so yeah this another question another question and

00:08:32 all the stops so model 3 get gets over here and it's not a big portion if you have studied the Ed of i1 coding portion and if you say the ching ching part of model the coding portion is only Ching part which you have to understand the addressing mode and various type of instruction to get to this uh coding okay so model 3 is gets over

Satya's notes is best notes to study from with all video recommended links according to subtopic wise along with pyq solution and solved practice question= https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbVBFU0lLazRFSVZyZ21oaktkVXFoRVY5V1lSZ3xBQ3Jtc0ttLXF3OEdwWUxtZ3BiQV83LUhMQ3B4d3N4dWlTMm90c01KcXNveHNjYXBsV0RqZFRIdi02VW9yQmlUUmFzNl80MG00dGM2M2JUY3E3b3VwS1dIMzg5YklYTFdBeE9kTlpDN2hsMXM1cDlSSmFUVTBLcw&q=https%3A%2F%2Fdrive.google.com%2Fdrive%2Ffolders%2F1tAJ4REVk-i7QcAXa8vjOQj5n62j0AyB5%3Fusp%3Dsharing&v=pExYIqclBj8

4. MPMC Module 4 - All you need Guide !!

00:00:01 so in this video we will see how to cover module 4 of mpmc in a efficient manner and this is the part four of mpmc guidance Series where I share my experience from where I went from 30% marks and get one to 70% marks in F and my journey what are my experiences my struggles and what you can learn for my experience okay so we will covering the video playlist which you should refer the exact ppts you should refer which notes to follow which questions should and everything else you know okay so let's get into the video so in model 4

00:00:35 let's start with my notes this is the index and as you can see it is divided into various parts so let's go into syllabus to navigate that once again so it is uh coming under 051 micro processor again and here are various parts like ports timer counters serial communication and inters okay so uh as you can see in my notes I have divided into timer counter one part and then interrupts another part and serial combination one part so you can say mod 4 is divided into three major subsections and resources I would again

00:01:12 emphasize uh enging fun as the backbone and if you can understand from that uh and like I would say this is one of the must as well for most model 4 it is from study micro ches link link is attached here you can go through it so let's navigate on that so timer and counters here we go uh so basic idea is like uh since micro is kind of a computer so it needs to get count of the time right it needs to track the time so timer is one of the device to that in a basic understanding uh you can go through the details and

00:01:51 all those stuff and counter is like something which uh needs to be count like uh like some elevator we is there and some sensors are detecting few things so there should be a counter to detect how many objects are going through the scan and stuff so you can get a basic idea or counter timer counter so here here in this portion we will studying over that okay so again uming for is the base we can go to noes here time timer counter and there are ton ters in it exactly so yeah um so the engine H notes I have cized in

00:02:34 very detail format whatever they have said and which is not written in pbd I have written here and there are various neonics as well which which you can go through to understand it so I would say uh like this like detail thing i0 i1 comes from i e like par thing to remember and this is how I remembered it like I remember it first then et then then one Z represent timer so I so when I remembered that it was like this like the breakdown structure so this this page RM page will always help you to remember stuff after

00:03:18 understanding it okay so then we come to t- mod and in t- mod uh I have circle like I have also color coded it you can see as you can see so this part is for [Music] basically timer one this part is for timer two and uh various like this symbol as I have already said it is for remembering thing so you can remember green portion as timer one bits and this is as timer Z bits and then you can this is a numic you can go through it and if you find helpful just let me know okay so yeah uh choosing timer or counter

00:04:00 this is not P this is actually or so basically uh how to choose a timer and counter it says here then enabling gate option and then choosing mode off timer okay then working of timer and counter it is explained in video I just wrot it down it is not very much needed but few points which are needed are like TR bit of T must be one so that I have highlighted it and very much this detail is not needed this circuit detail is not needed for coding as you can see all the timer C using coding question so you

00:04:41 don't have to prepare the theory of it like Theory basically Theory portion like this circuit diagram remembering things and stuff okay so then we comes to mod of timer and counter like there are various modes usually we use timer content mode one mode or zero and two and three are very rarely used and basic feature I have highlighted here which was most used for coding and uh yeah let's go through it little bit so I have so in program how to choose it I have just noted down here in stepwise choose the timer first load the counter

00:05:20 value then start the timer then U write a daily program then stop your okay so yeah and remember it like that the coding process of timer and here here you can see more more to timer the similar things I have mentioned here and this screenshot on PP so yeah let's go to the pp like this PP module 3 PB uh as you can see in D it looks something like this so refer this and for module 4 refer this okay so it was in teacher one or something in both modules in my like in the Drive Link which I have provided

00:06:02 so just go through it okay and do check out the description for the master link which have that dve link and all other important okay so yeah mode one mode two mode is not much do so I haven't St much I just crossed it it was just theoretically needed and never used in COD okay so I just crossed it and then counter I learn from this this so for counter I refer this video which is is not needed but it was a better representation so I just put it rather than putting the link attaching the link as so time contr

00:06:38 over then Port initialization interrupt so interrup I would basically say uh you can see as a triggering system you can say like for something like as timer gets

over there would be an inter and from that you can start something else or something like that so inter really as you can understand like basic intuitive way it interrup something after something is done something something like okay so you can go through details single interrupt multiple interrupt and yeah uh here comes I register IP register and I have

00:07:15 also summarized that here and for remembering few pins which was needed rest of the pins of a not needed to remember but here you needed actually like p3.0 and p3.1 and all the okay so this is for serial interrupt this is for um for timer counter and this is for interrupt uh so yeah so Port three actually you have to remember like Port zero for what port One For What and like for Port three uh how these eight pins are working you have to remember so I just emphasize that here by this symbol so we have to remember that thing and

00:07:56 not other others okay so in single inter also I have divided and classified things into timer interrupt and external hardware interrupt and serial okay so you can go through the details like here for is I have written the algorithm of the code written statement and like how to choose and stuff and this algorithm is very much explained in this time step of the video I have attached that so and yeah um basically for uh external hardware inter uh after going to the backbone like video lecture I followed

00:08:37 this and followed this as well so after this you can do some easy question here and here you can find some hard question of that EXT Hardware inter so you are not left behind in practice okay so from those video I like the representation and stuff so I put the screenshot of that and yeah and this is the coding portion which I did myself I have put the comments as well and I will probably upload my notes like coding notes of mpmc like which I prepared till U and lat lat stages just stay tuned my

00:09:16 channel for that and here's the question which I put to do I have never done it this is a hard question so you can just do it if you want okay so serial inter show yeah can look into it then multiple L question no video was available but there was a question in the PPD so I just included that here and this this questions and all you can refer to the book as well like this is the source from where they are getting the questions like majority of the questions so this book is in drive and its name is

00:09:53 m maid jice GS something like that so you can find like questions here you can say all right A C program C program isn't coming but yeah something like these are coming Al so basically this you can refer this book which I found very helpful and there was another book I am not remembering I will attach that name and probably the book

itself in the pin comment or description just State okay so that book was very much a for 51 like it had very indepth knowledge basically it is the source from where

00:10:31 the YouTubers are learning or the teachers okay and then we move to serial combination so I refer this video as I said in as this then then I refer this playlist this is very much helpful so just go through it so there is SBF register B scon register Pon register uh which are need to be configured for S permission there is mode one and mode one is only helpful so I just made not notes that then in programming there is algorithm for that like how what to do so these are the steps uh it was explained from that playlist as I have

00:11:11 said from here uh which is the other playlist I used than Eng okay so in programming like this the program of transfer character serially so this is the module one like normal method and this is the DPT method and now we go to programming where we receive character Ser so you can find this keywords in question so you have to apply this Concepts okay so these are the steps so here I did only normal method I guess DP not exist for you I don't way so yeah um so there is a comparison which I did to remember

00:11:53 easily like while receiving and while transmitting what is the difference in serial comination okay and more 02 three are not needed so I have just mentioned this in this heading so yeah here we are getting over with the model 4 and so we covered the playlists the like major playlist and the subtopic there are different videos atach you have to go to the notes properly to get to know the exact like best possible video recommendation by me and we covered the PPD as well and book also and the updated format of the book

00:12:29 or the other book which I couldn't remember I couldn't find I will attach in the description something so I guess we are done with the model 4 but till now in this Gan series I have done module one mod two model three model four and since these are called your fat stuff model 6 567 so I will cover it that time okay so have a great day

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5. The BEST M5 MPMC Strategies You're Not Using! Demystified #VIT Course

00:00:01 so hello everyone in this video we will see how to cover mpmc moduel 5 in a easy manner while covering all the PPS uh the required videos or the portion of the book and like whatever you need to master it and we will do it from scratch you don't need any basic knowledge uh to master this module except the prerequisite of knowing the previous topics of moduel three and four which were of 8051 and which gives a basic understanding of how to do coding in that uh basically in 8051 in SM language okay so let's get into the video and we

00:00:37 will see how we can cover it in the best possible manner so this will be the guidance session for that okay so let's go okay so let's say the syllabus first so till now in this series we have covered model 1 2 3 4 5 and now we are going sorry model four uh so till this we are done and if you have thoroughly followed the series and try to implement it as much as you could so you would be probably better off than lot of the people in mpmc and you could see that okay so yeah so after covering having

00:01:17 the prerequisite of 051 we will move to Model 5 which comes with LCD LED keypad ADC DAC okay so uh I will divide into various subsections okay let let's see that so the index goes like this the first question could be from LED or it could be from LCD or it could be from keypad or it could be either of these so if in morning shift they uh put ADC there could be DS in afteron shift so it was that Trend before and now there are various set of papers being asked so something like that so but one thing is

00:01:55 for sure um if they're asking ADC they won't ask the DC uh so a total 10 marks question could be either from ADC or DC uh and if they're very going very something like that so they could give it from five five marks to make the paper harder or something like that so but yeah you can understand it is these topics these two subtopics are from say like related so if if examin is setting a paper he will either ask this or this okay you can get the vi right okay so let's get into it so basically after we have seen 8051 now we

00:02:32 are seeing how we can do some useful work to it okay so we can send 01 in the port and that 01 can simply be reflected uh as a you know LED like if you sending one the LED could just U you know U glow starts glowing and if you send zero it just stops uh giving it right okay so you can give a series of 0 one 0 one one one 0 something that and you can uh blink the LED in various kind of fs and that is how you see various you know uh lightings are being done the coding embeded coding is done and all of of

00:03:11 those are you know very high complex version of the basic thing we are doing right now okay so that's how this model uh module is very interesting to know how how we can do some design of and if you could know the LED and stuff you can you know if you have lot of LED you can generate a sign curve in that and a lot of things are there okay so yeah um we'll see that and okay after LED uh we we will see LCD so LCD is in your lab you have seen a small rectangular display so it's just a display of whatever things are going to be there

00:03:48 okay so yeah there will be a cursor there could be displaying of your name like sat's YouTube channel subscribe and stuff okay you can display whatever you want LCD and that's how it displays are work in EMB codings if you go on the left left side there is a small panel there there uh uh you could see where the lift position is floor one floor two floor three so basically uh that displays of LED and uh sorry LCD and the coding is done to show how the numbers in that thing and we will see how that

00:04:24 works okay so that's also very interesting thing and keypad you know uh keypad is a basically uh used for input okay so LCD and led are for output and keypad the keypad is for input okay so if you just type it some out and it will process the thing so basically you can take it like this I give two numbers in keypad 12 and 63 and the the processing of multiplication will be done which you have already in uh a 51 programming and that output will be displayed in LCD okay so yeah uh that is how a basic things work and that this

00:05:03 can modified into various uh embed system or something like that like you see in remotes and uh you know lift panel and stuff you press the switch some processing is done and then it is dis Sprint pen so it's very interesting and D ADC are basically an analog to digital digital to analog converter so we will see into that so that's how this uh this module 5 is divided into various subtopics and that's how important and how intriguing and interesting it is in real life okay so if you get the W get

00:05:38 the feel just comment it down and you know uh and just give me like if you like the analogy and the way I made it interesting before even starting the model okay so now let's get into the each topic and S soft topic which are being covered in PPD and that's how that's what I have covered in my notes not a few things like one two subtopics of video you have to watch extra otherwise everything is there okay so let's go into the video oh sorry into notes so LED blinking so this is the link okay in resources 50% contribution

00:06:15 is done by enjoying Funda and rest of the contribution are made from video PPD classes uh doubt clearing from Teacher book reading and all stuff so I have done a lot of things I have given 150 hours to mpmc and you know just get so led the best possible video will be this and there are few extra notes I have written here so I will just go through the notes I have given you overview the basically the resource The Guidance Resource is this as so like it's subtopic we will have its link if needed and stuff okay so let's go through it

00:06:49 this link is there blinking all LED it is it was made by engine F guess so how to Blink eight LEDs okay so there are uh if you send one one to every pin the all the eight LEDs will go if you send 0 0 all it won't blow okay so if you send a series like first one you send all one then you send all zero though so the blinking will be done right so yeah uh here I have divided into various uh in LED blinking also I have made various categorization of whatever I have noted down so blinking all LED okay then there

00:07:27 comes uh in LED you need some delay uh which will be useful to make various uh patterns and stuff like okay so you uh you know give you turn on a LED after 2 seconds you turn it again after 3 seconds you turn it again and uh this pattern if apply to a lot of LEDs it can generate a pattern right like sign C and stuff uh each point will be blinking at some interval of time and there is a lot of calculation right okay so so coming to it so that is why delay is important and delay I have it was required for

00:08:06 timers and stuff also so I have uploaded for your cat one as well so uh the separate only delay portion was I have given there and that same delay I have put it here um okay so the in delay you should understand delay using register delay using timer okay and here we will see uh timer and counter we are already done with previous modules like moduel three or something it was there so that potion is completed now at D have also uploaded this same portion now but in LED you need to do it with t okay so you

00:08:44 can do it with counter uh as well as we will see okay so using rati there are two types of questions uh there are two type of cases basically you have to handle whenever the crystal frequency is 11.05 and whenever the crystal you can is uh 12 okay so there is a slight difference whenever you calculate the time there is a difference of 0.8 seconds uh so so basically in both the cases calculation of number of Loops you have to made will be same just you have to show show it differently by using the calculator

00:09:18 otherwise the calculation will be S that is what I have written here and uh okay so uh these two cases are there after uh I'm saying this only because uh after

analyzing all the pqs okay so uh if any other frequency comes you should know the basic way to do it but generally it won't come okay so okay let's move to it so delay using register for 0.5 second will be happening like this you just go through the video you will be getting to understand this in a lot easier way so dealing we can generate from uh 5c delay

00:09:55 to this we can come to this and if you multiply it by two we can generate 1 second delay okay so putting various Loops we can increase the number of delay and that's how I have color coded here to show it to you and it will make the your understanding very very easy okay so yeah there are various that's how 1 second delay is generated and in question the generated comes after 10c delay or something like that so you can put another loop over it and just multiply it by 10 so uh that's very easy right uh like I have for done

00:10:30 like from 1 from 0.5 second I just multipied 2 micr and some this is done okay just get to it okay and uh for example I wanted to make 123 second delay so I can multiply 123 into that inner loop of 1 second and simply get this okay so we will focus on this uh thing and stuff there's little bit of uh doubt I haven't clear that time so even if we're done with everything we just can go through it otherwise without cing that as well I guess you can just make it through it is not a very significant one okay so yeah

00:11:10 uh delay using two R stuff there is a syntax um why you want to write um zero FF and not FF uh so it's a convention that just remember it it's a convention that before um before the letters in heximal representation you just put a zero okay so yeah that is why I have written there and there isot lot of things which you shouldn't do so I have highlighted that as well so yeah this is the simulation which you can do to practice and to see if your code actually works so uh there is a video attached here so you can use Proteus I

00:11:55 highly recommend it uh it's not needed the pro I guess because in syllabus protus software us is not required but for your understanding I recommend download it do your coding and see how it works okay so you will be more comfortable in coding after you see uh that your code actually works and if you can do code it and actually run it you can write in paper easily right so yeah so for own for your own understanding you can do that and there is various connection which is also used in coding if you do practice in simulation it will

00:12:29 help you out to write the code in paper as okay so yeah blinking of LED or LED blinking or LED blinking blinking and here all LED are not blinking the same question okay uh this one okay if you want I can put it outside okay uh then binking is

single in that in that case I told you how to you know blink all LED at once here I talking about single so here in single LED don't give signal to all the LED simply okay so just pinpoint a single pin and give put it at set or clear to give it zero and one

00:13:10 okay so yeah you can go through it uh as a simple code and stuff okay so there are two LED blinking faes I covered and there is prots download thing there so yep you can just go through all the videos and stuff uh there is this Hindi video as well which which uh I guess it's Hindi I don't remember but yeah it's it's uh it's good that's where attached okay so yeah out of lot of videos out there in YouTube have segregated what actually helped me to understand the topic from scratch okay and by scratch I do mean you need to

00:13:50 know module three mod for preite of coding otherwise this would be to out okay so let's move to LCD LCD uh here is a the explanation and there is another explanation of the exact code which was n PP and there are a lot of resources uh so after watching all this video I get to know clear in mind in dra and I just made the formal notes here so yeah I referred enging f as well so yeah let's go to and these are the from PPS so you are going you're actually covering your ppds as well okay so LCD there is a LCD

00:14:27 display so there is uh you know uh 16 16 this much sections there and each section uh you could see a lot of smaller pieces and these things just glow out like this to give you a letter which you can see in elevator and other railway station and stuffs and yeah so this is how it works and this is how it is seen in real life okay so and all these pins you have to remember for sure you have to remember it okay except this thing which is not used all the pins you have to remember is needed for coding otherwise you can't

00:15:06 and this is the connection you have to made is this connection is needed because you need to understand the connections to put it in coding like which signal you want to give to which pin and stuff okay so this is a table you have to remember for LCD commands Okay uh and all those stuffs and here is a cursor detail uh if you put this your cursor will come there here here here and stuff okay so yeah you have to remember all this thing there's no doubt in paper they won't give the this chart or something you have to remember it for

00:15:38 coding okay so this was mind out I don't know if it is relevant for your syllabus or no not okay so Proteus again here comes with that thing uh yep Proteus how to uh do it in Proteus uh uh then then we come to normal method of where we can will do coding for uh LCD interfaces and here you can see the code with uh the

commments like the theory and code both are attached here and there are basically two methods of LCD to code one is normal method and is second one is dpd Method and this two video should work this

00:16:27 should this two video after watching this two video you will be done with the dpd code understanding and here's the summarized version of all the video and basically I just showed the fin code with all the comments down there for the revision okay so yeah this section this section this section and done so here have the connections so LCD done now we will see the keypad thing so y uh you have to watch first this video and then this video and one of the video won't be sufficient so you have to watch both and after that you

00:17:14 can understand the notes these are from pbd have WR down in some form and yeah this thing this this d02 D7 you have to understand how the message is given and here the required Theory and smage form this is a flowchart which is useful for coding and keypad and yeah this is this is the switch bouncing thing which you need to understand but you don't have to remember this graphs probably so yeah you can skip that if you want and this is the prequest prerequisite which you need for keep thing and here are the

00:17:55 theory and codes this again the commments for for each line of the code which I have made and yes there are subsection uh here I have divided the code into various subsections as well like lookup table then delay and all stuffs that will help you out to remember things so we have covered with the keypad and now we'll move to this section of adcd so in this thing uh as for the previous year questions uh you can see this things of square wave triangular wave coine wave saw and uh probably they won't ask you this

00:18:33 directly so there could be chances of mixture of waves like first make one square wave then triangle then uh s and like that combination will be repeated so yeah if you do this basic PES you can make uh those complex combination mixtures as well so yeah do see see out the PQ for that thing and D ADC is very less important uh if they want they will try to give you the DAC first and ADC they will prefer less uh and yeah um there is L there's not much enough resources for ADC and this is the best possible thing which I could put out and

00:19:14 I just wrot in that and uh if you can understand it well and good otherwise yeah you can just to this because a lot of resources are not available for ADC okay so yeah there's another video link attached here to understand this thing and yep only two videos are left for ADC which I have attached in the resources section so you can watch

that uh to complete your understanding of ADC uh yep so we are very much done with uh this thing this thing this thing this thing so totally module 5 is done and by

00:19:50 completing module 5 we are done with the total 8051 uh thing and yep in next video we will see uh modu 6 and 7 which is basically of arm arm and arm coding and stuff so we'll see that in next video so till then stay tuned and do let me know if this video helps you out see you

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Youtube Desciption of all the videos above with resources and links mentioned in video

mpmc is the deadliest subject of sem 3 cse branch, but i will make it easier process to go through ✌️

My notes and resources mentioned coming soon.....stay tuned , stay subscribed , stay ahead !!

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📍 Important links 🔗 -

1️⃣ Master link (All Awesomeness at one Place) - https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbGtXcENodkdSRWk2Uy00Y1Vqc1Jlc2ZveC16QXxBQ3Jtc0trRXRNYTg3Y2FVc3JvMUVlV0xzQmUtZFRvamtsUk1xaGtBckZObDlZNFdJd2JVRjZrUGNsLWVHdlR4VXQ2UmdnR0hUcHp5UGRzSlYxRzJCMHVBYzY4Q0xIZk1sVEFmMlotUndsLWJoeUxnWFpBbTZ3VQ&q=https%3A%2F%2Fdocs.google.com%2Fspreadsheets%2Fd%2F1sXbfwaLp8iNW5VMnaCNkLlOLv0lJ76epNccf2KpHK1o%2Fedit%3Fusp%3Dsharing&v=pExYIqclBj8

Feeling like you're missing out on the cool stuff I've shared?
No worries, I've got you covered!
Check out this magic link that holds all the awesomeness in one place. Stay tuned, stay ahead! 🎉📚

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2️⃣ VIT 28 (Satya helpzz) - https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqbVFiemY2UGxaOWxPRzk4dlVNZTdsQkxpS3FyUXxBQ3Jtc0ttYnVJQm9wMk5EUndLYTYwcE93RUFtSHgyYWVveFRraTNHVjJlZTBISVZLczQxY2xOZGQ2MWd6TzdHZ25UV1d1dDZ0dnZlZ0N1MTZiWUp4QTFySmg4cHAzVnd0V0wzYmNmbTZhVm5yazI4a3hwcWFuSQ&q=https%3A%2F%2Fchat.whatsapp.com%2FIgXS3SxVfwl3pcwaTsziUY&v=pExYIqclBj8

3️⃣ VIT 28 Insta -
https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqblNnRkwxR0dLdVlWQmdMV2JqYjdoR3lkLW15d3xBQ3Jtc0tsdTM3dDZkVEhCNWpsWEFqOEhTbXZIZEhXendQYXVRcnFaQ0prMzVCSldnZWZyLVgtZHhkZ3diQUVIUjBoal9YNlV4OUlaSnJERHlTWHl0M0pWQ2lWaXFaN1RGU1VmaFBHQjBqUzRiWDF4SnllczFIbw&q=https%3A%2F%2Fwww.instagram.com%2Fvitc_28%3Figsh%3DMTJ3YTI0Zjg2aHdoNA%3D%3D&v=pExYIqclBj8

4️⃣ VIT 28 WA community
https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqay1HRkZDN0RXaHdQNUdiRGJ4WUVvcmNoeUF3UXxBQ3Jtc0tsdnRBdk9mWUhlSC1jVl9Ub2pNZ0RaMkQ2YjFsa3JVb0RMYzhoX2h5VmlhMHhkZDF0eERiVmtnUU9iNGxWeUNwZnNLRzkyRC1xZnZjNF9sSmQzS0xkQkZUMVE3SU9ZTEcxNEwwUWZ6ZEFGWDlzMEF2MA&q=https%3A%2F%2Fchat.whatsapp.com%2FIgXS3SxVfwl3pcwaTsziUY&v=pExYIqclBj8

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